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The H. D. SMITH & CO'S CARRIAGE WAGON AND SLEIGH FORGINGS.

PLANTSVILLE, CONN. U. S. A.

1893

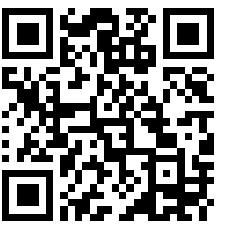
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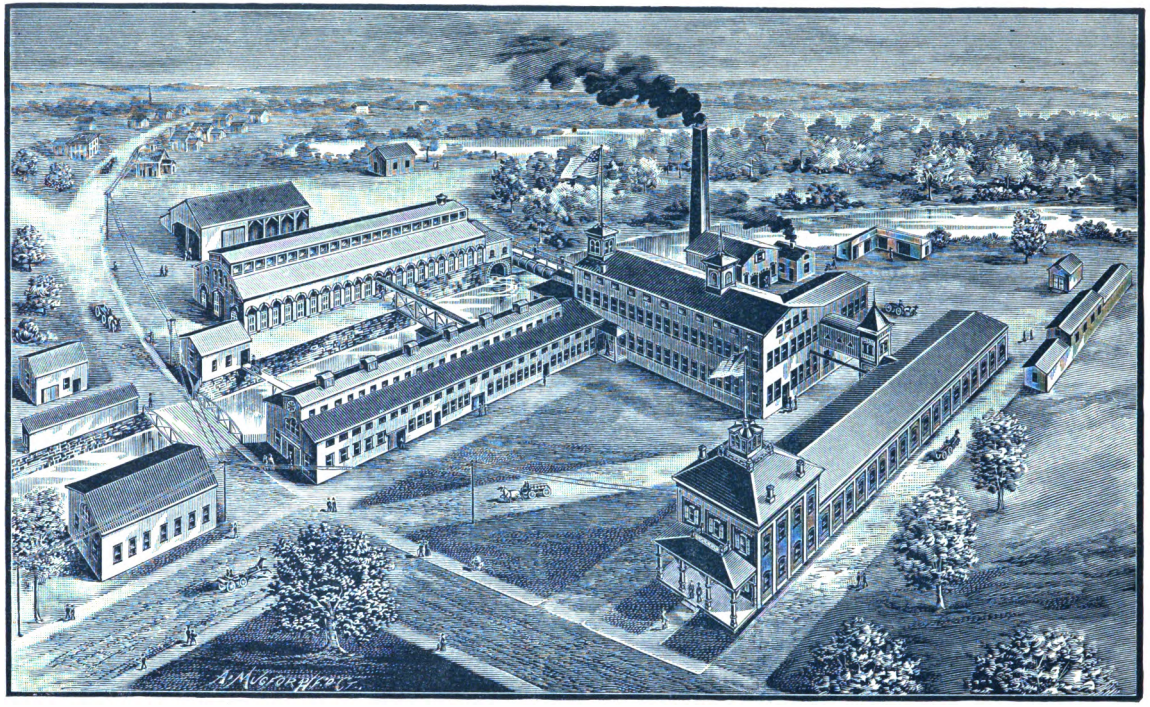



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ESTABLISHED 1850.

CATALOGUE

—OF—

THE H. D. SMITH & CO.,

CARRIAGE, WAGON, AND SLEIGH

FORGINGS,

PLANTSVILLE, CONN., U. S. A.

MAY, 1893.

H. D. SMITH, President. *GEO. F. SMITH, Secretary.*

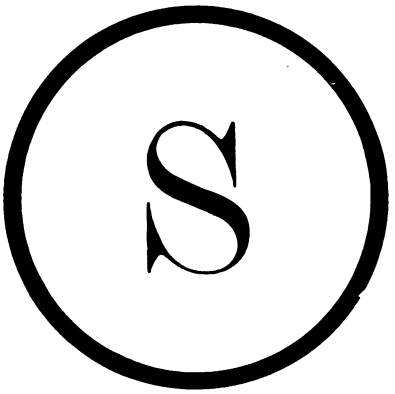
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TRADE-MARK.

The above trade-mark will invariably be a guarantee of the best material and workmanship.

THE JUDGES' REPORT OF OUR EXHIBIT AT THE PHILADELPHIA INTERNATIONAL EXHIBITION.

"A Large and Splendid Exhibit of Superior, Practical, and Useful Carriage Makers' Forged Irons."

EXHIBIT ALSO AT THE 1893 CHICAGO COLUMBIAN EXPOSITION.

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Plantsville, Conn., U. S. A., May 1, 1893.

This Catalogue cancels our previous issues of Catalogues or Supplements.

Though we have condensed it considerably, dropped a number of items not in common use, and ILLUSTRATE GOODS OF OUR OWN MAKE ONLY, we offer a larger Variety of Kinds and Sizes of popular Carriage, Wagon, and Sleigh Forgings, than made at any other one manufactory.

It will be our constant aim to maintain the high standard of quality which has characterized our make of goods in the past.

Respectfully yours,

The H. D. SMITH & CO.

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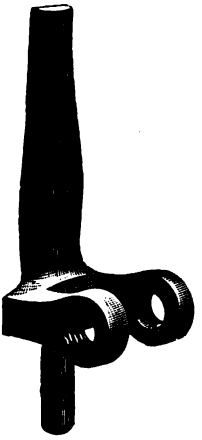
SMITH'S INTERCHANGEABLE

MILLED SHAFT COUPLINGS.

No. 50.

SMITH'S PATTERN. Unfinished Clips.

Fig. 1.



CLIP PART.

Trade Mark.

Fig. 2.



ROUND HOLE BOLT.

Fig. 3.



SQUARE HOLE BOLT.

Fig. 4.



SHAFT EYE.

Clip Part Forged from One Solid Piece of the Best Norway Iron.

WITH THREAD IN THE EAR, EXCEPT ⅞ INCH, 1 INCH LIGHT, AND 2 INCH.

Without Thread in the Ear when especially so ordered.

		Width.	Diameter.	Bolt.	Per Dozen Pairs. BLACK.	BRIGHT.
⅞ inch,	Eye,	⅞ inch by	¾ inch,	5-16 inch,	$11.25	$13.25
1 "	Light. .... "	1 "	⅞ "	3-8 "	11.25	13.25
1 "	Heavy,.... "	1 "	⅞ "	7-16 "	11.75	13.75
1⅛ "	..... "	1⅛ "	⅞ "	7-16 "	12.50	14,50
1¼ "	.. .. "	1¼ "	1 "	7-16 "	14.50	16.50
1⅜ "	..... "	1⅜ "	1 "	7-16 "	16.00	18.00
1½ "	..... "	1½ "	1 1/16 "	7-16 "	17.00	19 00
1⅝ "	(Straight Ear),"	1⅝ "	1⅛ "	1-2 "	25.00	
1¾ "	..... "	1¾ "	1¼ "	1-2 "	30.00	
2 "	(Straight Ear),"	2 "	1⅜ "	5.8 "	50.00	
Extra for Square Bolt in the Ear, net.....					1.00	1.00
" Steel Center Eyes, net (see page 13),.....					2.50	2.50

Pole Couplings, except 2 inch, same list as above.

Put up in paper boxes of 6 sets each, without being bolted together.
The whole joint of our Bright Shaft Couplings is *extra milled* both *outside* and *inside*.
Black Shaft Couplings have the whole inside of the joint *milled* to an accurate fit, and the outside will be found *true, smooth, first-class forging*.
When ESPECIALLY ORDERED, this pattern will be furnished with ROUND BOLT, WITHOUT THREAD; or with BOLT SQUARE in the ear.

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SMITH'S SHAFT COUPLINGS.

No. 52.

SMITH'S PATTERN. Finished Clips.

Trade Mark.

Fig. 22.

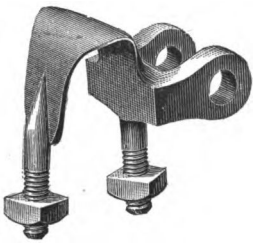
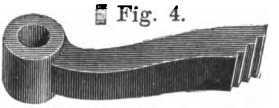


Fig. 2.



ROUND HOLE BOLT.

Fig. 4.



In ordering, state size of Axle.

With Thread in the Ear when Especially so ordered.

											Per Dozen Pairs. BLACK.
			From Round to Round.								
$\frac{7}{8}$	inch,		$\frac{5}{16}$	inch	Shank,	Clip	$2\frac{3}{4}$	inch, for	$\frac{3}{4}$	inch Axle,	$11.25
1	"	Light,	$\frac{5}{16}$	"	"	"	$3\frac{1}{4}$	"	$\frac{7}{8}$	" "	11.25
1	"	"	$\frac{5}{16}$	"	"	"	$3\frac{3}{8}$	"	1	" "	11.25
1	"	Heavy,	$\frac{5}{16}$	"	"	"	$3\frac{3}{8}$	"	1	" "	11.75
1	"	"	$\frac{3}{8}$	"	"	"	$3\frac{3}{8}$	"	1	" "	11.75
1	"	"	$\frac{5}{16}$	"	"	"	4	"	$1\frac{1}{8}$	" "	11.75
1	"	"	$\frac{3}{8}$	"	"	"	4	"	$1\frac{1}{8}$	" "	11.75
$1\frac{1}{8}$	"		$\frac{3}{8}$	"	"	"	4	"	$1\frac{1}{8}$	" "	12.50
$1\frac{1}{4}$	"		$\frac{3}{8}$	"	"	"	$4\frac{1}{4}$	"	$1\frac{1}{4}$	" "	14.50
$1\frac{3}{8}$	"		$\frac{3}{8}$	"	"	"	$4\frac{1}{2}$	"	$1\frac{1}{4}$	" "	16.00
$1\frac{1}{2}$	"		$\frac{7}{16}$	"	"	"	$4\frac{3}{4}$	"	$1\frac{3}{8}$	" "	17.00
$1\frac{5}{8}$	"		$\frac{1}{2}$	"	"	"	$5\frac{1}{2}$	"	$1\frac{1}{2}$	" "	25.00
$1\frac{3}{4}$	"		$\frac{1}{2}$	"	"	"	$6\frac{1}{2}$	"	$1\frac{3}{4}$	" "	30.00

AXLE STEP SHAFT COUPLINGS.

SMITH'S PATTERN. Finished Clips.

											Per Dozen Pairs. BLACK.
			From Round to Round.								
1	inch,	Heavy,	$\frac{3}{8}$	inch	Shank.	Clip	$3\frac{3}{8}$	inch, for	1	inch Axle,	$11.75
1	"	"	$\frac{3}{8}$	"	"	"	4	"	$1\frac{1}{8}$	" "	11.75
$1\frac{1}{8}$	"		$\frac{3}{8}$	"	"	"	4	"	$1\frac{1}{8}$	" "	12.50
$1\frac{1}{4}$	"		$\frac{3}{8}$	"	"	"	$4\frac{1}{4}$	"	$1\frac{1}{4}$	" "	14.50

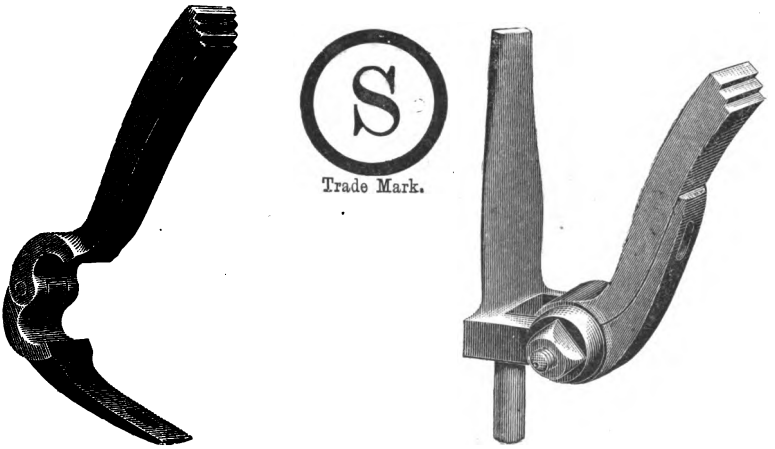
Made with Long Shanks, and designed for use with our Axle Steps.

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SMITH'S
HINGE SHAFT COUPLINGS.

No. 54.

LOOSE BOLT AND SOLID RUBBER.



Made of the Best Norway Iron.

State whether with $\frac{1}{4}$ inch or $\frac{5}{16}$ inch Bolt.

Light, with $\frac{1}{4}$ inch or $\frac{5}{16}$ inch Bolt,.....per pair, $2.50
Medium, " $\frac{1}{4}$ " $\frac{5}{16}$ " " ..... " 2.50

Pole Couplings same List Price as above.

This Coupling as made by us is *milled* to an accurate fit; and made of the best material. The Rubber Tubing used is made especially for the above coupling, of a superior quality and canvas lined. It has a Loose Bolt, which permits the use of the Rubber Tubing *whole*, without slitting it open, as necessary where used with a Rivet Bolt, and makes the Rubber *wear much longer*. The Bolts are well fitted to the shackle part, which has a square hole in the ear.

We recommend a $\frac{5}{16}$ inch Bolt as making the Rubber wear longer.

Canvas lined Rubber Tubing (see page 21).

SMITH'S HINGE POLE EYES.



Light,.....per pair, $1.75
Medium,..... " 1.75

This Pole Eye is made to fit our Hinge Coupling.

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STEEL CENTER EYE

SHAFT AND POLE COUPLINGS.

No. 56.

Economy to use them.

Trade Mark.



POLE EYE.



FLANGE SHAFT EYE.



PLAIN SHAFT EYE.

			Width.	Diameter.
1	inch,	Heavy,.....Eye	1 inch	by $\frac{7}{8}$ inch.
$1\frac{1}{8}$	"	..... "	$1\frac{1}{8}$ "	$\frac{7}{8}$ "
$1\frac{1}{4}$	"	..... "	$1\frac{1}{4}$ "	1 "

Shaft or Pole Couplings, with Steel Center Eyes, furnished in place of the ordinary Iron Eye, at $2.50 net per dozen pairs extra.

Put up without being bolted together, in paper boxes of six sets each.

These Shaft Eyes are made of the best Iron, except the center, which is made of Steel, by a process that makes it solid with the Eye. The steel around the hole is so hardened that these Eyes will wear without rattle *at least twice* as long as the ordinary Eye.

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SMITH'S INTERCHANGEABLE

MILLED SHAFT COUPLINGS.

No. 58.

STRAIGHT EAR PATTERN. Unfinished Clips.

Fig. 6.



CLIP PART.



Trade Mark.

Fig. 2.



ROUND HOLE BOLT.

Fig. 3.



SQUARE HOLE BOLT.

Fig. 4.



SHAFT EYE.

Clip Part Forged from One Solid Piece of the Best Norway Iron.

Without Thread in the Ear.

		Width.	Diameter.	Bolt.	Per Dozen Pairs. Black.	Bright.
1 inch,	Light, Eye	1 inch	by $\frac{3}{4}$ inch,	3-8 inch,	$11.25	$13.25
1 "	Heavy, "	1 "	" $\frac{7}{8}$ "	3-8 "	11.75	13.75
$1\frac{1}{8}$ "	..... "	$1\frac{1}{8}$ "	" 1 "	3-8 "	12.50	14.50
$1\frac{1}{4}$ "	..... "	$1\frac{1}{4}$ "	" 1 "	7-16 "	14.50	16.50
$1\frac{1}{2}$ "	..... "	$1\frac{1}{2}$ "	" $1\frac{1}{16}$ "	7-16 "	17.00	19.00
$1\frac{5}{8}$ "	..... "	$1\frac{5}{8}$ "	" $1\frac{1}{8}$ "	1-2 "	25.00	
$1\frac{3}{4}$ "	..... "	$1\frac{3}{4}$ "	" $1\frac{1}{4}$ "	1-2 "	30.00	
2 "	..... "	2 "	" $1\frac{3}{8}$ "	5-8 "	50.00	
Extra, for Bolt Square in the Ear, net, ...					1.00	1.00
" " Steel Center Eyes, net (see page 13), ...					2.50	2.50

Pole Couplings same List as above.

Put up without being bolted together, in paper boxes of six sets each. For Pole Eyes and Shackle Bolts, see pages 19, 23, and 24.

Black Shaft Couplings have the whole inside of the joint *milled* to an accurate fit. They are forged from the best iron, and the outside will be found *true, smooth, first-class forging.*

The whole joint of our Bright Shaft Couplings is *extra milled* both *outside* and *inside.*

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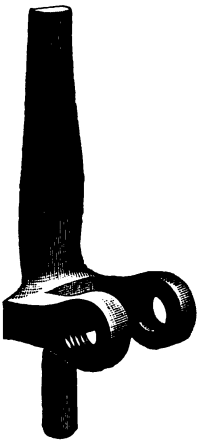
SMITH'S INTERCHANGEABLE

MILLED POLE COUPLINGS.

No. 59.

SMITH'S PATTERN. Unfinished Clips.

Fig. 1.



CLIP PART.



Trade Mark.

Fig. 2.



ROUND HOLE BOLT.

Fig. 3.



SQUARE HOLE BOLT.

Fig. 15.



POLE EYE.

Clip Part Forged Solid from One Piece of the Best Norway Iron.

WITH THREAD IN THE EAR, EXCEPT ⅞ INCH AND 1 INCH LIGHT.

Without Thread in the Ear, when especially so ordered.

		Width.	Diameter.	Bolt.	Per Dozen Pairs. Black.	Bright.
⅞ inch,	Eye	⅞ inch	by ¾ inch,	5-16 inch,	$11.25	$13.25
1 "	Light, "	1 "	¾ "	3-8 "	11.25	13.25
1 "	Heavy, "	1 "	⅞ "	7-16 "	11.75	13.75
1⅛ "	"	1⅛ "	⅞ "	7-16 "	12.50	14.50
1¼ "	"	1¼ "	1 "	7-16 "	14.50	16.50
1⅜ "	"	1⅜ "	1 "	7-16 "	16.00	18.00
1½ "	"	1½ "	1 1/16 "	7-16 "	17.00	19.00
1⅝ "	(Straight Ear), "	1⅝ "	1⅛ "	1-2 "	25.00	
1¾ "	"	1¾ "	1¼ "	1 2 "	30.00	
Extra, for Square Bolt in the Ear, net,					1.00	1.00

Put up in paper boxes of six sets each, without being bolted together.

The whole joint of our Bright Shaft Couplings is *extra milled* both *outside* and *inside*.

Black Shaft Couplings have the whole inside of the joint *milled* to an accurate fit. They are forged from the best iron, and the outside will be found *true, smooth, first-class forging*.

When especially ordered, will be furnished with *round bolt, without thread*, or with *bolt, square* in the ear.

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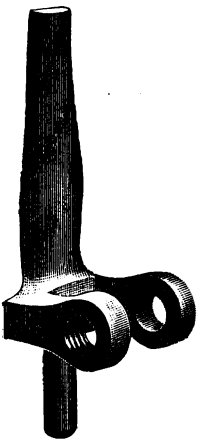
SMITH'S INTERCHANGEABLE

MILLED SHAFT COUPLINGS.

No. 60.

SMITH'S FLANGE PATTERN. Unfinished Clips.

Fig. 1.



CLIP PART.

Trade Mark.

Fig. 2.



ROUND HOLE BOLT.

Fig. 3.



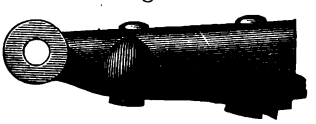
SQUARE HOLE BOLT.

Fig. 7.



PATENT SHAFT EYE.

Fig. 8.



SHAFT EYE.

Finished with Wood.

Whole joint outside and inside, Extra Milled finish and fit.

		Width.		Diameter.	Bolt.	Per Dozen Pairs. BRIGHT.
$\frac{7}{8}$ inch.	Eye	$\frac{7}{8}$ inch by		$\frac{3}{4}$ inch,	5-16 inch,	$13.25
1 " Light,	"	1	"	$\frac{3}{4}$ "	3-8 "	13.25
1 " Heavy,	"	1	"	$\frac{7}{8}$ "	7-16 "	13.75
$1\frac{1}{8}$ "	"	$1\frac{1}{8}$	"	$\frac{7}{8}$ "	7-16 "	14.50
$1\frac{1}{4}$ "	"	$1\frac{1}{4}$	"	1 "	7-16 "	16.50
$1\frac{1}{2}$ "	"	$1\frac{1}{2}$	"	$1\frac{1}{16}$ "	7-16 "	19.00
Extra, for Square Bolt in the Ear, net,						1.00
" " Steel Center Eyes, net (see page 13),						2.50

Put up, without being bolted together, in paper boxes of 6 sets each.

For Pole Eyes and Shackle Bolts, see pages 19, 23, and 24.

The end of the shaft, when fastened to the shaft iron with a diamond or T head shaft bolt only, often becomes loosened and split when in use.

The flanges on the above Shaft Eye are made solid on sides of the shank (as shown in Fig. 7), and will bend down snugly on to the wood, binding it so firmly that it *cannot split*, and forming a more *solid, strong fastening* for the shaft end.

The flanged eye, which is designed to use with an oval head carriage bolt, will make a better finish with the wood than any other in use, as shown in Fig. 8.

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SMITH'S INTERCHANGEABLE

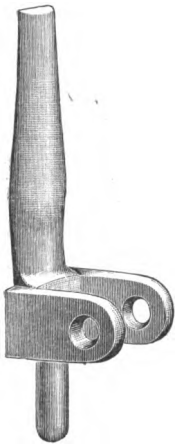
MILLED SHAFT COUPLINGS.

No. 61.

STRAIGHT EAR FLANGE PATTERN. Unfinished Clips.

Trade Mark.

Fig. 6.



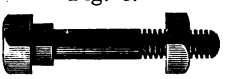
CLIP PART.

Fig. 2.



ROUND HOLE BOLT.

Fig. 3.



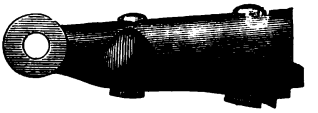
SQUARE HOLE BOLT.

Fig. 7.



PATENT SHAFT EYE.

Fig. 8.



SHAFT EYE.

Finished with Wood.

Without Thread in the Ear.

Whole joint outside and inside Extra Milled finish and fit.

			Width.		Diameter.		Bolt.				BRIGHT
1	inch,	Light,	Eye 1	inch by	$\frac{3}{4}$	inch,	$\frac{3}{8}$	inch,	per doz.	pairs,	$13.25
1	"	Heavy,	" 1	"	$\frac{7}{8}$	"	$\frac{3}{8}$	"	"	"	13.75
$1\frac{1}{8}$	"	.....	" $1\frac{1}{8}$	"	$\frac{7}{8}$	"	$\frac{3}{8}$	"	"	"	14.50
$1\frac{1}{4}$	"	.....	" $1\frac{1}{4}$	"	1	"	$\frac{7}{16}$	"	"	"	16.50
$1\frac{1}{2}$	"	.....	" $1\frac{1}{2}$	"	$1\frac{1}{16}$	"	$\frac{7}{16}$	"	"	"	19.00

Extra, for Square Bolt in the Ear, net,..... 1.00

" " Steel Center Eyes, net (see page 13),..... 2.50

Put up without being bolted together, in paper boxes of six sets each.

For Pole Eyes and Shackle Bolts, see pages 19, 23, and 24.

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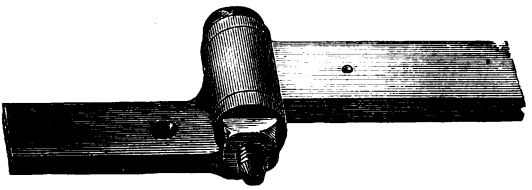
CARRIAGE SHAFT COUPLINGS.

No. 66.

PLAIN PATTERN.

Trade Mark.

Fig. 14.



With Thread in the Ear.

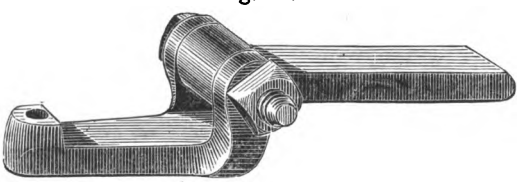
	Width.	Diameter.	Bolt.	Per Dozen Pairs. Black.	Bright.
No. 2, Plain,.....	Eye 1 inch	by $\frac{7}{8}$ inch,	$\frac{7}{16}$ inch,	$8.75	$10.50
No. 1, "	" 1 "	1 "	$\frac{7}{16}$ "	9.50	11.25
Extra Large, Plain,.	" $1\frac{1}{2}$ "	$1\frac{1}{8}$ "	$\frac{1}{2}$ "	16.00	18.00

For Price List of Pole Eyes, see page 19.

No. 67.

CLIP BAR PATTERN.

Fig. 22.



Bolt 7-16 inch, with Thread in the Ear.

				Black.	Bright.
$1\frac{1}{8}$ inch,	Eye $1\frac{1}{8}$ inch	by $\frac{7}{8}$ inch,	per dozen pairs,	$10.50	$12.25
$1\frac{1}{4}$ "	" $1\frac{1}{4}$ "	1 "	" "	12.00	14.00

It will be seen that this pattern of coupling, by means of the clip bar attachment, does not draw on the axle clip, as does the ordinary plain pattern, but has its bearing against the axle, making a very strong coupling.

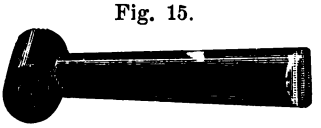
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REVERSED PATTERN POLE EYES.

No. 70.

Trade Mark.

Fig. 15.



											Black.	Bright
$\frac{7}{8}$	inch,	.....	Eye,	$\frac{7}{8}$	inch	by	$\frac{3}{4}$	inch,	per doz.	pairs,	$5.00	$6.00
1	"	Light..	"	1	"	"	$\frac{3}{4}$	"	"	"	6.00	7.00
1	"	Heavy	"	1	"	"	$\frac{7}{8}$	"	"	"	6.50	7.50
$1\frac{1}{8}$	"	.....	"	$1\frac{1}{8}$	"	"	$\frac{7}{8}$	"	"	"	6.50	7.50
$1\frac{1}{4}$	"	.....	"	$1\frac{1}{4}$	"	"	1	"	"	"	8.00	9.00
$1\frac{3}{8}$	"	.....	"	$1\frac{3}{8}$	"	"	1	"	"	"	8.50	9.50
$1\frac{1}{2}$	"	.....	"	$1\frac{1}{2}$	"	"	$1\frac{1}{8}$	"	"	"	9.00	10.00
$1\frac{5}{8}$	"	.....	"	$1\frac{5}{8}$	"	"	$1\frac{1}{8}$	"	"	"	13.00	
$1\frac{3}{4}$	"	.....	"	$1\frac{3}{4}$	"	"	$1\frac{1}{4}$	"	"	"	15.00	

Milled to fit our Shaft Couplings.

In ordering, state size of hole, and the kind of coupling desired to fit.

This Pole Eye is made with the oval part of shank joining the eye, or pole head, across its diameter, or at right angles with the hole (as in Fig. 15), which gives the shank the right position to weld to the sweep bar iron.

Packed in paper boxes of six sets each.

PLAIN PATTERN POLE EYES.

No. 71.

Fig. 16.



								Black.	Bright.
1	inch	by	$\frac{7}{8}$	inch,	.....	per dozen	pairs,	$4.50	$5.50
$1\frac{1}{8}$	"		$\frac{7}{8}$	"	.....	"	"	5.50	6.50
$1\frac{3}{8}$	"	1		"	.....	"	"	7.25	8.25
$1\frac{1}{4}$	"	1		"	.....	"	"	6.50	7.50
$1\frac{1}{2}$	"	1		"	.....	"	"	8.00	9.00

In ordering, state whether $\frac{7}{8}$ or $\frac{7}{16}$ inch hole, and the kind of coupling desired to fit. Packed in paper boxes of six sets each.

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SHAFT COUPLING PARTS.

No. 73.

PLAIN PATTERN SHAFT EYE.

Trade Mark.

Fig. 4.



									Black.	Bright.
$\frac{7}{8}$	inch,	.....	for	$\frac{5}{16}$	inch	Bolts,	.....	per dozen pairs,	$4.50	$5.50
1	"	Light,	"	$\frac{3}{8}$	"	"	.....	" "	4.50	5.50
1	"	Heavy,	"	$\frac{7}{16}$	"	"	.....	" "	4.50	5.50
$1\frac{1}{8}$	"	.....	"	$\frac{7}{16}$	"	"	.....	" "	5.50	6.50
$1\frac{1}{4}$	"	.....	"	$\frac{7}{16}$	"	"	.....	" "	6.50	7.50
$1\frac{3}{8}$	"	.....	"	$\frac{7}{16}$	"	"	.....	" "	7.00	8.00
$1\frac{1}{2}$	"	.....	"	$\frac{7}{16}$	"	"	.....	" "	8.00	9.00
$1\frac{5}{8}$	"	.....	"	$\frac{1}{2}$	"	"	.....	" "	12.00	
$1\frac{3}{4}$	"	.....	"	$\frac{1}{2}$	"	"	.....	" "	13.00	
2	"	.....	"	$\frac{5}{8}$	"	"	.....	" "	15.00	

FLANGE PATTERN SHAFT EYE.

No. 74.

Fig. 7.



									Black.	Bright.
$\frac{7}{8}$	inch,	.....	for	$\frac{5}{16}$	inch	Bolts,	.....	per dozen pairs,	$5.50	$6.50
1	"	Light,	"	$\frac{3}{8}$	"	"	.....	" "	6.50	7.50
1	"	Heavy,	"	$\frac{7}{16}$	"	"	.....	" "	6.50	7.50
$1\frac{1}{8}$	"	.....	"	$\frac{7}{16}$	"	"	.....	" "	6.50	7.50
$1\frac{1}{4}$	"	.....	"	$\frac{7}{16}$	"	"	.....	" "	8.00	9.00
$1\frac{1}{2}$	"	.....	"	$\frac{7}{16}$	"	"	.....	" "	9.00	10.00

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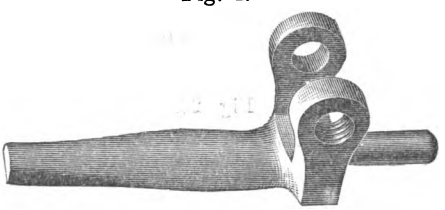
SHAFT COUPLING PARTS.

No. 76.

SMITH'S PATTERN. Unfinished Clips.

Trade Mark.

Fig. 1.



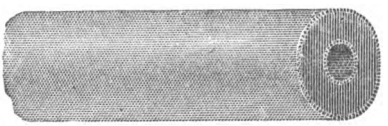
Clip Parts without Bolts or Eyes.

						Per Dozen Pairs.	
						BLACK.	BRIGHT.
$\frac{7}{8}$	inch,	for	$\frac{5}{16}$	inch	Bolts,	$6.50	$8.25
1	" Light,	"	$\frac{3}{8}$	"	"	6.50	8.25
1	" Heavy,	"	$\frac{7}{16}$	"	"	7.00	8.75
$1\frac{1}{8}$	"	"	$\frac{7}{16}$	"	"	7.50	9.50
$1\frac{1}{4}$	"	"	$\frac{7}{16}$	"	"	8.75	10.50
$1\frac{3}{8}$	"	"	$\frac{7}{16}$	"	"	10.00	11.50
$1\frac{1}{2}$	"	"	$\frac{7}{16}$	"	"	10.00	11.50
$1\frac{5}{8}$	"	"	$\frac{1}{2}$	"	"	16.00	
$1\frac{3}{4}$	"	"	$\frac{1}{2}$	"	"	18.00	
2	"	"	$\frac{5}{8}$	"	" (Straight Ear)	32.00	

RUBBER TUBING.

No. 86.

FOR SMITH'S HINGE COUPLINGS.



Superior Quality, for $\frac{1}{4}$ inch or $\frac{5}{16}$ inch Bolt, ... per foot, 0.75

All Bearing Surfaces Canvas Lined.

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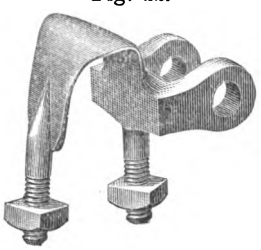
SHAFT COUPLING PARTS.

No. 78.

SMITH'S PATTERN. Finished Clips.

Trade Mark.

Fig. 22.



Clip Parts without Bolts or Eyes.

In ordering, state size of Axle.

												Per Dozen Pairs. Black.
				From Round to Round.								
$\frac{7}{8}$	inch,	.....	$\frac{5}{16}$	inch	Shank,	Clip	$2\frac{3}{4}$	inch, for	$\frac{3}{4}$	inch	Axle,	$4.75
1	"	Light,	$\frac{5}{16}$	"	"	"	$3\frac{1}{8}$	"	$\frac{7}{8}$	"	"	4.75
1	"	"	$\frac{5}{16}$	"	"	"	$3\frac{3}{8}$	"	1	"	"	4.75
1	"	Heavy,	$\frac{5}{16}$	"	"	"	$3\frac{3}{8}$	"	1	"	"	4.75
1	"	"	$\frac{3}{8}$	"	"	"	$3\frac{3}{8}$	"	1	"	"	4.75
1	"	"	$\frac{5}{16}$	"	"	"	4	"	$1\frac{1}{8}$	"	"	4.75
1	"	"	$\frac{3}{8}$	"	"	"	4	"	$1\frac{1}{8}$	"	"	4.75
$1\frac{1}{8}$	"	.....	$\frac{3}{8}$	"	"	"	4	"	$1\frac{1}{8}$	"	"	6.00
$1\frac{1}{4}$	"	.....	$\frac{3}{8}$	"	"	"	$4\frac{1}{4}$	"	$1\frac{1}{4}$	"	"	7.00
$1\frac{3}{8}$	"	.....	$\frac{3}{8}$	"	"	"	$4\frac{1}{2}$	"	$1\frac{1}{4}$	"	"	9.50
$1\frac{1}{2}$	"	.....	$\frac{7}{16}$	"	"	"	$4\frac{3}{4}$	"	$1\frac{3}{8}$	"	"	10.50
$1\frac{5}{8}$	"	.....	$\frac{1}{2}$	"	"	"	$5\frac{1}{2}$	"	$1\frac{1}{2}$	"	"	18.00
$1\frac{3}{4}$	"	.....	$\frac{1}{2}$	"	"	"	$6\frac{1}{2}$	"	$1\frac{3}{4}$	"	"	24.00

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ROUND HOLE SHACKLE BOLTS.

No. 80.

SMITH'S FULL MILLED.

Trade Mark.



In ordering, state the KIND *and* SIZE *of Coupling wanted for.*

								Per 100.
5-16	inch by	2¼	inch, for	⅞	inch	Shaft Couplings,	.....	$6.00
3-8	"	2⅜	" "	1	"	Light Shaft Couplings,	.....	6.50
3-8	"	2½	" "	1	"	Heavy " "	.....	6.50
3-8	"	2⅝	" "	1⅛	"	..... " "	.....	6.50
3-8	"	2¾	" "	1¼	"	..... " "	.....	6.50
7-16	"	2¼	" "	1	"	Heavy " "	.....	6.50
7-16	"	2⅝	" "	1⅛	"	..... " "	.....	6.50
7-16	"	2¾	" "	1¼	"	..... " "	.....	6.50
7-16	"	3	" "	1⅜	"	..... " "	.....	6.50
7-16	"	3¼	" "	1½	"	..... " "	.....	6.50

Special lengths made to order.

Put up in boxes of fifty each.

These Bolts have bright finished heads and nuts, and are *milled* to fit the different kinds of Shaft Couplings made by us, except those with square holes in the ear.

SQUARE HOLE SHACKLE BOLTS.

No. 81.

SMITH'S FULL MILLED.



								Per 100.
1-4	inch by	2	inch, for	⅞	inch	Hinge Couplings,	.....	$6.50
1-4	"	2¼	" "	1	"	" "	.....	6.50
5-16	"	2	" "	⅞	"	" "	.....	7.00
5-16	"	2⅜	" "	1	"	Light "	.....	7.00
5-16	"	2½	" "	1	"	" "	.....	7.00
3-8	"	2½	" "	1	"	Heavy "	.....	7.50
3-8	"	2⅝	" "	1⅛	"	..... "	.....	7.50
7-16	"	2¾	" "	1¼	"	..... "	.....	7.50
7-16	"	3	" "	1⅜	"	..... "	.....	7.50
7-16	"	3¼	" "	1½	"	..... "	.....	7.50
1-2	"	3¼	" "	1⅝	"	..... "	.....	11.00
1-2	"	3¾	" "	1¾	"	..... "	.....	11.00

Put up in boxes of fifty each.

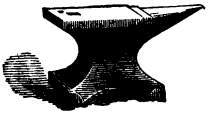
These Bolts have bright finished heads and nuts, and are *milled* to fit the different kinds of Shaft Couplings made by us, which have a square hole in one ear.

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ROUND HOLE SHACKLE BOLTS.

No. 82.

ANVIL HALF MILLED.



Trade Mark.



In ordering, state the KIND *and* SIZE *of Coupling wanted for.*

							Per 100.
5-16	inch by	2¼	inch,	for ⅞	inch	Couplings, ...	$4.50
3-8	"	2⅜	"	" 1	"	Light Couplings.....	4.50
3-8	"	2½	"	" 1	"	Heavy "	4.50
3-8	"	2⅝	"	" 1⅛	"	..... "	4.50
7-16	"	2½	"	" 1	"	Heavy "	4.50
7-16	"	2⅝	"	" 1⅛	"	..... "	4.50
7-16	"	2¾	"	" 1¼	"	..... "	4.50
7-16	"	3	"	" 1⅜	"	..... "	4.50
7-16	"	3¼	"	" 1½	"	..... "	4.50
1-2	"	3¾	"	" 1⅝	"	..... "	10.00
1-2	"	3¾	"	" 1¾	"	..... "	10.00
5-8	"	4¼	"	" 2	"	..... "	15.00

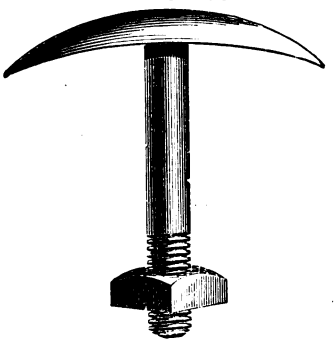
Special lengths made to order.

Put up in boxes of fifty each.

These Bolts have heads and nuts of black finish, and the round part *milled* to fit the different kinds of Shaft Couplings made by us, except those with square holes in the ear.

SMITH'S IMPROVED SHAFT BOLT.

No. 85.



5/16 inch.	Per 100.
2 inch, ...	$4.10
2¼ " ...	4.20
2½ " ...	4.40
2¾ " ...	4.50
3 " ...	4.70

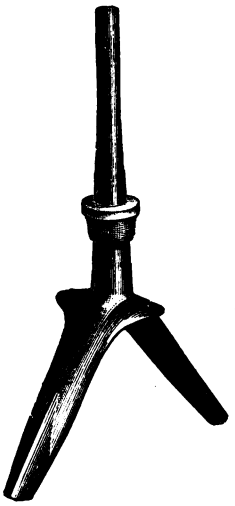
3/16 and ¼ inch.	Per 100.
1 inch, ...	$3.00
1¼ "	3.10
1½ "	3.20
1¾ "	3.30
2 "	3.40
2¼ "	3.50
2½ "	3.60

Made of the Best Norway Iron.

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SMITH'S CLIP KING BOLT.

No. 90.



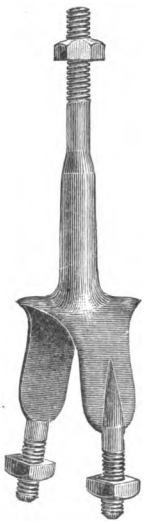
UNFINISHED ENDS.

Trade Mark.



ADJUSTABLE COLLAR.

No. 91.



FINISHED ENDS.

Furnished with a Collar unless especially ordered without.

Made of the Best Norway Iron.

UNFINISHED ENDS.

		Without Collar.	With Collar.
No. 1, Bolt $\frac{1}{2}$ inch,	per dozen,	$3.25	$4.00
" 2, " $\frac{9}{16}$ "	"	3.25	4.00
" 3, " $\frac{5}{8}$ "	"	4.00	4.75

FINISHED ENDS.

From Round to Round.		Without Collar.	With Collar.
No. 1, for $\frac{7}{8}$ inch Axle, Clips 4 inch,	per dozen,	$4.00	$4.75
" 1, " $\frac{7}{8}$ " " " $4\frac{1}{4}$ "	"	4.00	4.75
" 2, " $\frac{7}{8}$ " " " 4 "	"	4.00	4.75
" 2, " 1 " " " $4\frac{1}{4}$ "	"	4.00	4.75
" 2, " 1 " " " $4\frac{1}{2}$ "	"	4.00	4.75
" 2, " $1\frac{1}{8}$ " " " 5 "	"	4.00	4.75
" 3, " 1 " " " $4\frac{1}{2}$ "	"	4.75	5.50
" 3, " $1\frac{1}{8}$ " " " 5 "	"	4.75	5.50
" 3, " $1\frac{1}{4}$ " " " $5\frac{1}{2}$ "	"	4.75	5.50
" 3, " $1\frac{3}{8}$ " " " 6 "	"	4.75	5.50

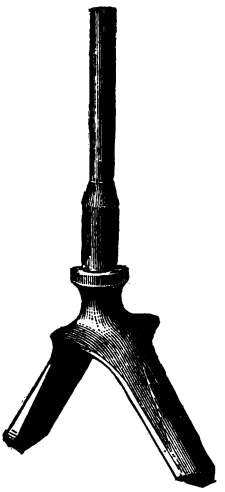
The bearing is *always* on the fifth wheel, whether used without a collar or with the soft brass adjustable collar, and there is therefore no rocking on the King Bolt collar, which makes the fifth wheel wear *much* longer. It is the strongest King Bolt made.

It saves considerable trouble and expense in fitting it to the fifth wheel, because it adjusts *itself* to the height required by the fifth wheel.

Digitized by Google

Excelsior Pattern Clip King Bolt.

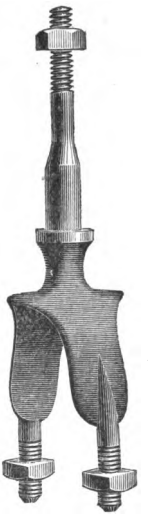
No. 92.



UNFINISHED ENDS.

Trade Mark.

No. 93.



FINISHED ENDS.

Made of the Best Norway Iron.

UNFINISHED ENDS.

No.	1,	Bolt	$\frac{1}{2}$	inch,	.....	per dozen,	$3.25
"	2,	"	$\frac{9}{16}$	"	.....	"	3.25
"	3,	"	$\frac{5}{8}$	"	.....	"	4.00
"	4,	"	$\frac{3}{4}$	"	.....	"	6.50

FINISHED ENDS.

From Round to Round.

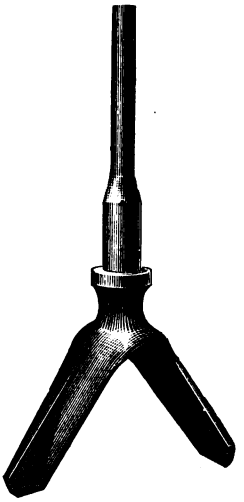
No.	1,	for	$\frac{7}{8}$	inch	Axle,	Clips	4	inch,	Bolt	$\frac{1}{2}$	inch,	per dozen,	$4.00
"	1,	"	$\frac{7}{8}$	"	"	"	$4\frac{1}{4}$	"	"	$\frac{1}{2}$	"	"	4.00
"	2,	"	$\frac{7}{8}$	"	"	"	4	"	"	$\frac{9}{16}$	"	"	4.00
"	2,	"	1	"	"	"	$4\frac{1}{4}$	"	"	$\frac{9}{16}$	"	"	4.00
"	2,	"	1	"	"	"	$4\frac{1}{2}$	"	"	$\frac{9}{16}$	"	"	4.00
"	2,	"	$1\frac{1}{8}$	"	"	"	5	"	"	$\frac{9}{16}$	"	"	4.00
"	3,	"	1	"	"	"	$4\frac{1}{2}$	"	"	$\frac{5}{8}$	"	"	4.75
"	3,	"	$1\frac{1}{8}$	"	"	"	5	"	"	$\frac{5}{8}$	"	"	4.75
"	3,	"	$1\frac{1}{4}$	"	"	"	$5\frac{1}{2}$	"	"	$\frac{5}{8}$	"	"	4.75
"	3,	"	$1\frac{3}{8}$	"	"	"	6	"	"	$\frac{5}{8}$	"	"	4.75
"	4,	"	$1\frac{1}{4}$	"	"	"	$5\frac{1}{2}$	"	"	$\frac{3}{4}$	"	"	7.50
"	4,	"	$1\frac{3}{8}$	"	"	"	6	"	"	$\frac{3}{4}$	"	"	7 50

Digitized by Google

Improved Plain Clip King Bolt.

No. 95.

Fig. 1.



UNFINISHED ENDS.



Trade Mark.

No. 96.

Fig. 2.



FINISHED ENDS.

Made of the Best Norway Iron.

UNFINISHED ENDS.

No. 1,	Bolt $\frac{1}{2}$	inch,	.....	per dozen,	$2.75
" 2,	" $\frac{9}{16}$	"	.....	"	2.75
" 3,	" $\frac{5}{8}$	"	.....	"	3.50
" 4,	" $\frac{3}{4}$	"	.....	"	5.00

FINISHED ENDS.

From Round to Round.

No. 1,	for	$\frac{7}{8}$	inch	Axle,	Clips	4	inch,	Bolt	$\frac{1}{2}$	inch,	per dozen,	$3.50
" 1,	"	$\frac{7}{8}$	"	"	"	$4\frac{1}{4}$	"	"	$\frac{1}{2}$	"	"	3.50
" 2,	"	$\frac{7}{8}$	"	"	"	4	"	"	$\frac{9}{16}$	"	"	3.50
" 2,	"	1	"	"	"	$4\frac{1}{4}$	"	"	$\frac{9}{16}$	"	"	3.50
" 2,	"	1	"	"	"	$4\frac{1}{2}$	"	"	$\frac{9}{16}$	"	"	3.50
" 2,	"	$1\frac{1}{8}$	"	"	"	5	"	"	$\frac{9}{16}$	"	"	3.50
" 3,	"	1	"	"	"	$4\frac{1}{2}$	"	"	$\frac{5}{8}$	"	"	4.25
" 3,	"	$1\frac{1}{8}$	"	"	"	5	"	"	$\frac{5}{8}$	"	"	4.25
" 3,	"	$1\frac{1}{4}$	"	"	"	$5\frac{1}{2}$	"	"	$\frac{5}{8}$	"	"	4.25

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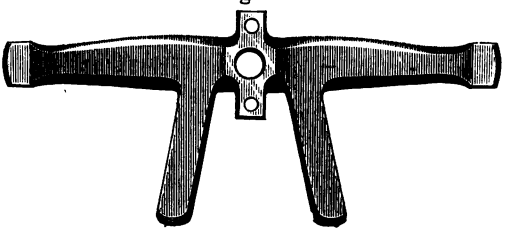
HEAD BLOCK PLATES.

No. 100.

DOUBLE PERCH PATTERN. Unfinished Ends.

Trade Mark.

Fig. 3.



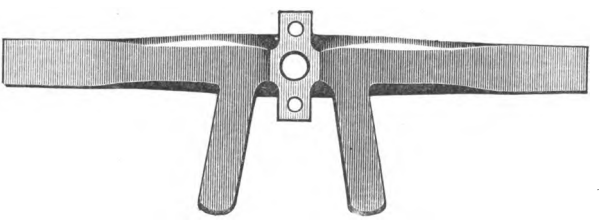
For 1¼ inch Spring, to fit No. 1 King Bolt,.....per dozen, $7.50
" 1¼ " " " " 2 " " ..... " 7.50
" 1⅜ " " " " 2 " " ..... " 7 50
" 1⅜ " " " " 3 " " ..... " 7.50
" 1½ " " " " 3 " " ..... " 7.50

These plates are forged solid, in the best manner, with clip yokes of our smooth finish pattern. The holes are drilled and milled to fit our King Bolts and Brewster Saddle Clip.

The ends are left with suitable stock to draw out for any diameter of fifth wheel.

No. 101.

DOUBLE PERCH PATTERN. Finished Ends.



For 1¼ inch Spring, to fit No. 1 King Bolt,.....per dozen, $7.50
" 1¼ " " " " 2 " " ..... " 7.50
" 1⅜ " " " " 2 " " ..... " 7.50
" 1⅜ " " " " 3 " " ..... " 7.50
" 1½ " " " " 2 " " ..... " 7.50
" 1½ " " " " 3 " " ..... " 7.50

The ends are drawn out of length suitable for either 12 or 14 inch fifth wheels.

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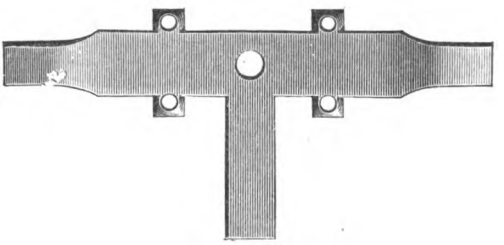
HEAD BLOCK PLATES.

No. 103.

SINGLE PERCH PATTERN. Unfinished Ends.

Trade Mark.

Fig. 1.



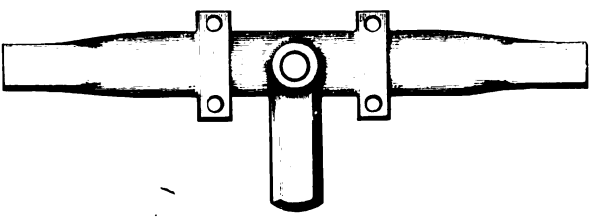
For	1¼	inch	Spring,	to	fit	No.	1	King Bolt,	per dozen,	$7.50
"	1¼	"	"	"	"		2	" "	"	7.50
"	1⅜	"	"	"	"		2	" "	"	7.50
"	1⅜	"	"	"	"		3	" "	"	7.50
"	1½	"	"	"	"		3	" "	"	7.50

The holes are drilled and milled to fit our King Bolts, and Brewster Saddle Clip.

The ends are left with suitable stock to draw out for any diameter of fifth wheel.

No. 104.

SINGLE PERCH PATTERN. Finished Ends.



For	1¼	inch	Spring,	to	fit	No.	1	King Bolt,	per dozen,	$7.50
"	1¼	"	"	"	"		2	" "	"	7.50
"	1⅜	"	"	"	"		2	" "	"	7.50
"	1⅜	"	"	"	"		3	" "	"	7.50
"	1½	"	"	"	"		3	" "	"	7.50

The ends are drawn out of length suitable for either 12 or 14 inch fifth wheels.

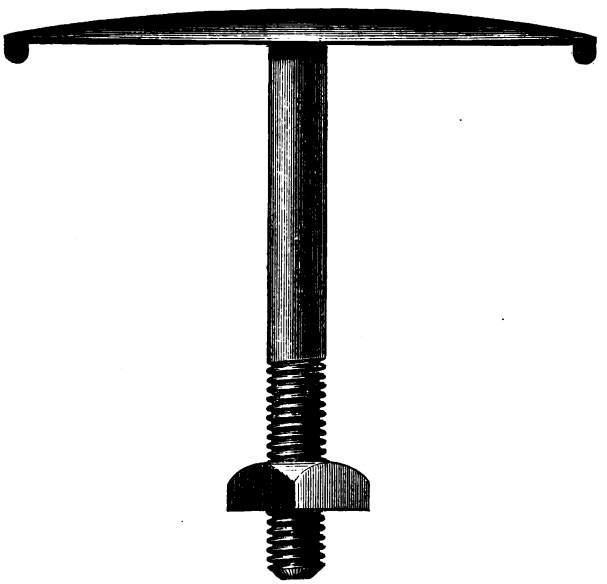
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SMITH'S WHIFFLETREE BOLTS.

No. 105.

SPUR PATTERN.

Trade Mark.



Made of Norway Iron, and Finished in the Best Manner.

							BLACK.	BRIGHT.
5-16	inch	diameter,	3	inches	long,	per dozen,	$2.50	$3.00
5-16	"	"	3½	"	"	"	2.50	3.00
5-16	"	"	4	"	"	"	2.50	3.00
5-16	"	"	4½	"	"	"	2.50	3.00
3 8	"	"	3½	"	"	"	2.50	3.00
3-8	"	"	4	"	"	"	2.50	3.00
3-8	"	"	4½	"	"	"	2.50	3.00
Longer lengths, over 4½ inches, for King Bolts,						"	2.90	3.40

Put up in paper boxes of four dozen each.

The above Whiffletree Bolt has the spurs *forged under* the head, in place of being *turned* down at or *on* the point, as commonly made, which improvement gives a sharp, well-defined point at the ends of the bolt head, making a much better finish than by bending the point of the bolt down.

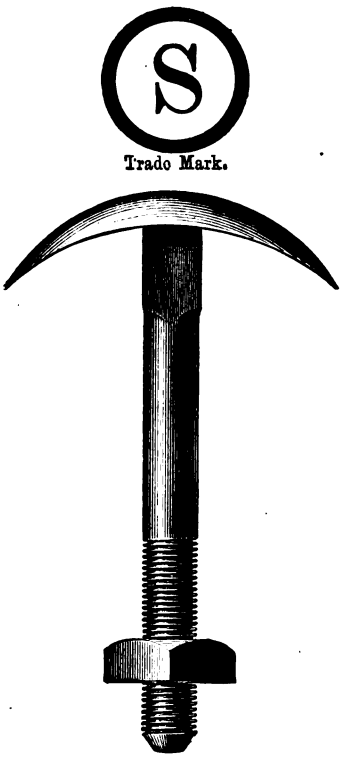
Digitized by Google

SMITH'S WHIFFLETREE BOLTS.

No. 106.

BRIGHT BENT PATTERN.

SQUARE UNDER HEAD.



Trado Mark.

Made of the Best Norway Iron, and Finished in the Best Manner.

							Black.	Bright.
5-16	inch	diameter,	3	inches	long,	per dozen,	$1.50	$2.00
5-16	"	"	3½	"	"	"	1.50	2.00
5-16	"	"	4	"	"	"	1.50	2.00
5-16	"	"	4½	"	"	"	1.50	2.00
3-8	"	"	3½	"	"	"	1.50	2.00
3-8	"	"	4	"	"	"	1.50	2.00
3-8	"	"	4½	"	"	"	1.50	2.00

Put up in paper boxes of four dozen each.

The head is broad in the center, and the bolt square under the head, to prevent its working loose on the wood.

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SMITH'S WHIFFLETREE BOLTS.

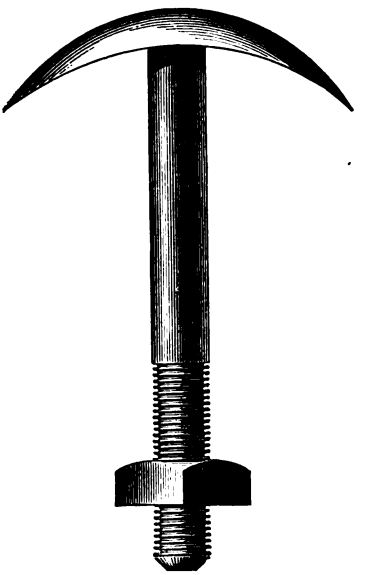
No. 107.

BLACK BENT PATTERN.

ROUND UNDER HEAD.



Trade Mark.



Made of the Best Norway Iron.

							BLACK.
5-16	inch	diameter,	3	inches	long,	per dozen,	$1.50
5-16	"	"	3½	"	"	"	1.50
5-16	"	"	4	"	"	"	1.50
5-16	"	"	4½	"	"	"	1.50
3-8	"	"	3½	"	"	"	1.50
3-8	"	"	4	"	"	"	1.50
3-8	"	"	4½	"	"	"	1.50

Put up in paper boxes of four dozen each.

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SMITH'S PATENT

WHIFFLETREE PLATE AND BOLT.

No. 110.

Patented June 13, 1892, and June 6, 1885.

Fig. 3.

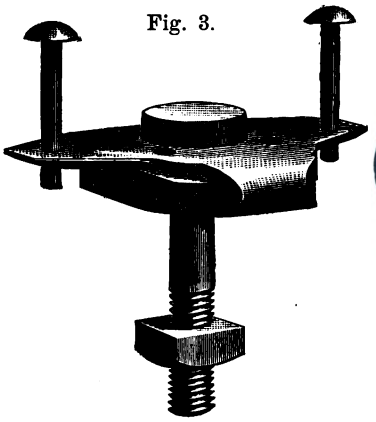




Fig. 2.

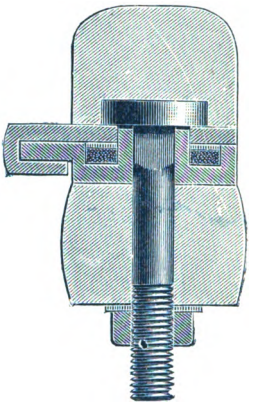
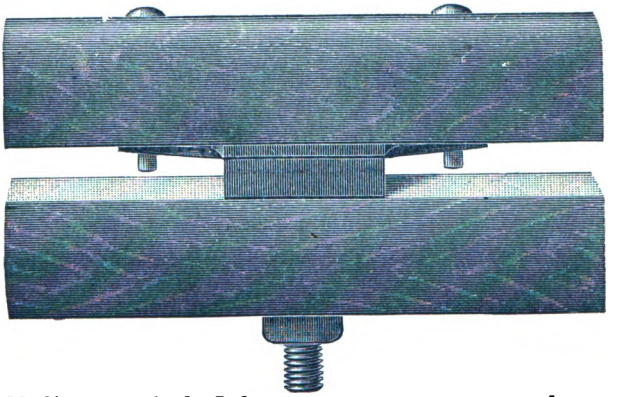


Fig. 1.



No. 1, Medium, $\frac{5}{16}$ inch Bolt.....per dozen, $5.00
" 2, Heavy, $\frac{3}{8}$ " " ..... " 6.00

Fig. 1, Whiffletree Plate fitted to the wood.
Fig. 2, Sectional View. Fig. 3, as sent to Market.

The Bolt does not pass through the Whiffletree; is square where it passes through the Plate, and does not turn with the Whiffletree. It prevents the Bolt from twisting off where the nut bears under the Shaft Bar; does not weaken the Whiffletree, and makes a smooth, much better finish than does the usual Whiffletree Bolt. The rubber set into the bottom Plate to prevent rattle is protected from friction by a washer. The draft is not on the Bolt, but on the raised nib of the bottom Plate, and the hook on back of top Plate.

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BREWSTER & CO'S

FORGED WHIFFLETREE PLATES.

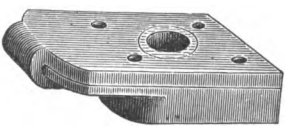
No. 111.

Trade Mark.

Fig. 1.



Fig. 2.



No. 1, for Light Buggies,.....per dozen, $3.00
" 2, " Heavier Carriages,..... " 3.50

Put up in paper boxes of four dozen each.

For Whiffletree Bolts to fit these Plates, see pages 30, 31, and 32.

Fig. 1 represents a section of the Plate parallel with the shaft.

Fig. 2 represents the Plates locked together.

The top Plate is screwed to the Whiffletree, with its hook projecting toward the carriage. The bottom Plate is screwed to the cross-bar, with its flange toward the carriage.

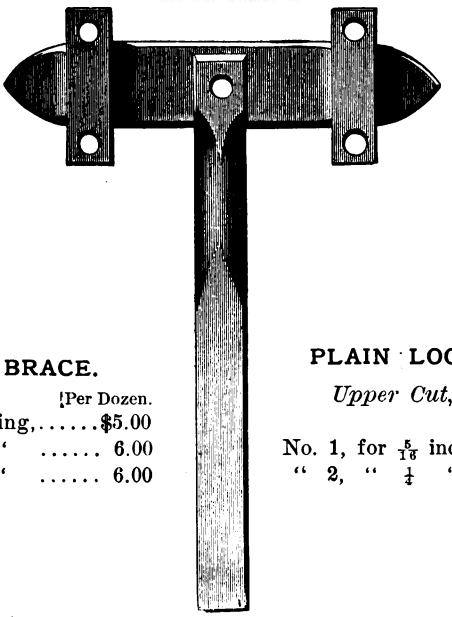
Both the top and bottom Plate are made of wrought iron, and are forged, fitted, and finished up in a superior manner.

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SPRING BRACE.

No. 113.

Trade Mark.



SPRING BRACE.

	Per Dozen.
For 1¼ inch Spring,	$5.00
" 1⅜ " "	6.00
" 1½ " "	6.00

PLAIN LOOP HEAD.

Upper Cut, page 72.

	Per Dozen.
No. 1, for 5/16 inch Bolt,	$1.50
" 2, " ¼ " "	1.50

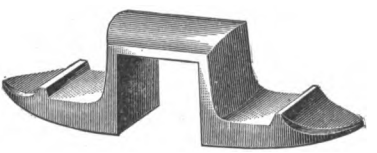
Made of the Best Norway Iron.

Prevents the twisting strain that breaks Loop Head Bolts.

The above Brace is fastened to the under side of the top half of an elliptic spring by the the spring bar clips and bolts, and the long part or shank bolted to bottom of the body.

AXLE BOX CLIPS.

No. 413.



A Set consists of Four Clips.

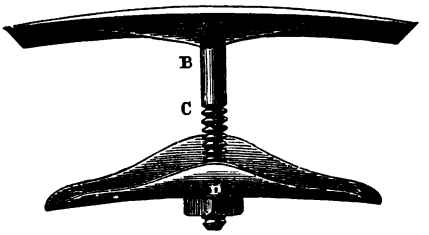
For 1⅛ inch Spring, 1⅛ inch Axle, ... per set, $1.40
" 1¼ " " 1¼ " " ..... " 1.40

Digitized by Google

MELLYN'S
PATENT FELLOE HOLDER.

No. 114.

Trade Mark.



A Set consists of Eight Felloe Holders and Plates.

For	$\frac{3}{4}$	inch	Felloes, ...	per set,	$1.25
"	$\frac{7}{8}$	"	"	"	1.25
"	1	"	"	"	1.25
"	$1\frac{1}{8}$	"	"	"	1.50
"	$1\frac{1}{4}$	"	"	"	1.75
"	$1\frac{1}{2}$	"	"	"	2.00

Put up in boxes of six sets each.

A wheel first and most commonly breaks down at the joints of the felloe, where the tire often becomes flattened and the felloe split. The above Felloe Holder is designed to prevent the felloe from *splitting* and keep it out to a *true circle.*

The two bolts which fasten the tire going through the plate of the Felloe Holder, the plate itself, the bridge underneath it, and the dowel passing through the whole width of the felloe, all combine to make a joint of very great strength.

SPECIAL POLE EYE.

No. 125.



BLACK.

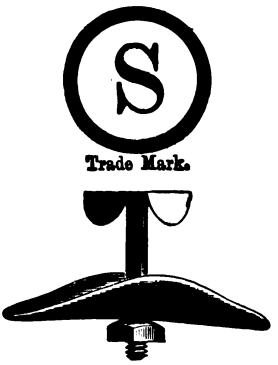
Eye $\frac{7}{8}$ inch by $1\frac{1}{8}$ inch, ... per dozen, $2.50

Digitized by Google

Brewster Felloe Joint Bolts.

No. 115.

WITH STEEL PLATES.



A Set consists of Eight Felloe Joint Bolts and Plates.

For $\frac{5}{8}$ inch	Felloes,	$\frac{1}{8}$ inch	Bolt,	.....	per set,	$0.75
" $1\frac{1}{16}$ "	"	$\frac{3}{16}$ "	"	.....	"	.75
" $\frac{3}{4}$ "	"	$\frac{1}{8}$ "	"	.....	"	.75
" $\frac{3}{4}$ "	"	$\frac{3}{16}$ "	"	.....	"	.75
" $1\frac{3}{16}$ "	"	$\frac{3}{16}$ "	"	.....	"	.75
" $\frac{7}{8}$ "	"	$\frac{3}{16}$ "	"	.....	"	.75
" 1 "	"	$\frac{3}{16}$ "	"	.....	"	.75
" $1\frac{1}{8}$ "	"	$\frac{1}{4}$ "	"	.....	"	.75

Put up in boxes of six sets each.

Sent to market with a steel felloe plate having its edges chamfered. The Bolt or dowel passing through the whole width of the felloe, together with the head of the Bolt covering the joint and bending down on the sides of the felloe, make a strong joint, with very little additional weight of iron.

No. 116.

WITHOUT PLATES.



								Per 100.
$\frac{5}{8}$ inch	Felloes,	with	Bolt	$\frac{1}{8}$ inch	by	$1\frac{1}{2}$ inch,	...	$5.00
$1\frac{1}{16}$ "	"	"	$\frac{3}{16}$	"	$1\frac{3}{4}$	"	...	5.50
$\frac{3}{4}$ "	"	"	$\frac{1}{8}$	"	$1\frac{1}{2}$	"	...	5.00
$\frac{3}{4}$ "	"	"	$\frac{3}{16}$	"	$1\frac{3}{4}$	"	...	5.50
$1\frac{3}{16}$ "	"	"	$\frac{3}{16}$	"	$1\frac{3}{4}$	"	...	5.50
$\frac{7}{8}$ "	"	"	$\frac{3}{16}$	"	2	"	...	5.50
1 "	"	"	$\frac{3}{16}$	"	2	"	...	5.50
$1\frac{1}{8}$ "	"	"	$\frac{1}{4}$	"	2	"	...	6.00

Put up in boxes of 100 each.

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STEEL FELLOE PLATES.

No. 118.

N. Y. CHAMFERED EDGE PATTERN.

Trade Mark.



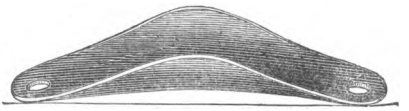
Plates for $\frac{5}{8}$ inch Rim,..... } Two holes, 60 cents per pound.
" " $\frac{3}{4}$ " " ..... }
" " $\frac{7}{8}$ " " ..... }
" " 1 " " ..... } Three holes, 65 cents per pound.

Made with two or three holes, that have raised squares around them to give suitable bearing for the nut.

The edges are chamfered, and ground to a *sharp* edge.

No. 119.

PHILADELPHIA PATTERN.



Plates for $\frac{1}{2}$ inch Rims.....		per lb.,	$0.15
" " $\frac{9}{16}$ " "		"	.15
" " $\frac{5}{8}$ " "		"	.15
" " $\frac{3}{4}$ " "		"	.10
" " $\frac{7}{8}$ " "		"	.10
" " 1 " "		"	.10
" " $1\frac{1}{8}$ " "		"	.10
" " $1\frac{1}{4}$ " "		"	.10
" " $1\frac{3}{8}$ " "		"	.10
" " $1\frac{1}{2}$ " "		"	.10
" " $1\frac{5}{8}$ " "		"	.10
" " $1\frac{3}{4}$ " "		"	.10
" " 2 " "		"	.10
" " $2\frac{1}{4}$ " "		"	.10

Extra for three holes.

These plates are made of a superior quality of steel, and put up in paper boxes holding ten pounds each.

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STEEL FELLOE PLATES.

No. 120.

NEW YORK PATTERN.

Trade Mark.



Plates for	$\frac{5}{8}$	inch	Rims,	per lb.,	$0.25
" "	$\frac{3}{4}$	"	"	"	.17
" "	$\frac{7}{8}$	"	"	"	.17
" "	1	"	"	"	.17
" "	$1\frac{1}{8}$	"	"	"	.17
" "	$1\frac{1}{4}$	"	"	"	.17
" "	$1\frac{3}{8}$	"	"	"	.17
" "	$1\frac{1}{2}$	"	"	"	.17

Packed in paper boxes of ten pounds each.

The New York Pattern has a raised square forged around the holes, which gives a bearing on the whole face of the nut.

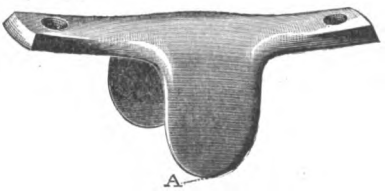
This pattern is made of a *superior quality of steel.*

Forged Coach Felloe Plates.

No. 121.



Section at A.



One Set consists of Eight Plates.

Plates for	$\frac{3}{4}$	inch	Felloes,	per set,	$0.45
" "	$\frac{7}{8}$	"	"	"	.45
" "	1	"	"	"	.45
" "	$1\frac{1}{8}$	"	"	"	.45
" "	$1\frac{1}{4}$	"	"	"	.50
" "	$1\frac{3}{8}$	"	"	"	.55
" "	$1\frac{1}{2}$	"	"	"	.65
" "	$1\frac{5}{8}$	"	"	"	.75
" "	$1\frac{3}{4}$	"	"	"	.85

Packed in paper boxes of three sets each.

The above Plates are not made by cutting them out of sheet metal, but are *forged* from a superior quality of steel, and are a first-class forging, with thick center and thin edges.

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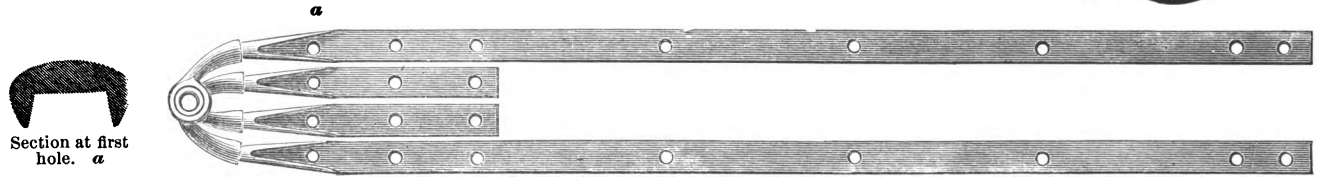
SMITH'S OVAL FORGED SLAT IRONS.

No. 130.

SOCKET FOUR BOW PATTERN.

Trade Mark.

Fig. 8.



Four Bow, with two long Bows, with Brass Bushing,.....per dozen sets, $15.00

The bottom parts of the above Slat Irons are forged round, and have guards raised on the lower end of the oval part, which extend up on it a little beyond the first hole, forming a cavity, or socket, that securely holds the end of the bow, prevents it from splitting, and strengthens the Iron at the first hole, where most strain comes.

Each Bow Iron fits on to the Seat Iron, without any rivets, and can be taken off, finished, and stitched separately. They are made with a brass sleeve running through the slats to give them free action, and to prevent their binding on the nut, and turning it off. The lower part of the Slat Iron forms a shoulder equal to the thickness of the leather, making a smooth finish between it and the leather.

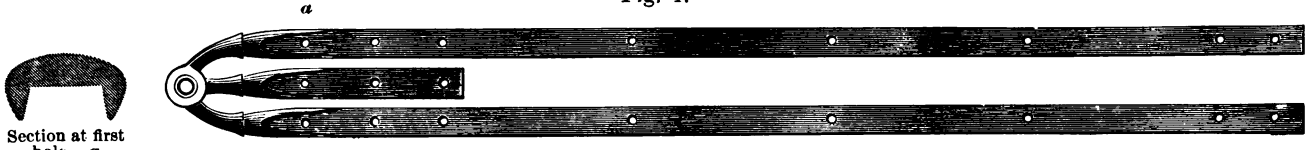
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SMITH'S THREE BOW OVAL FORGED SLAT IRONS.

No. 131.

SOCKET THREE BOW PATTERN.

Fig. 1.



Section at first hole. *a*

For Description, see Four Bow of this Pattern on preceding page.

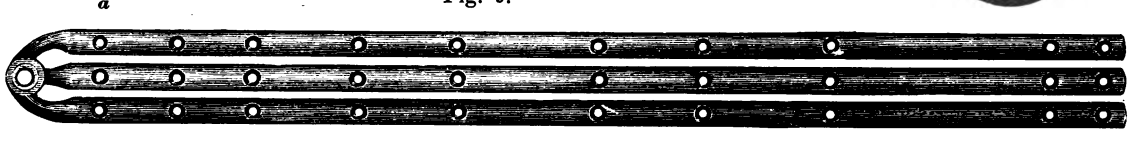
Three Bow, with two long Bows, with Brass Bushing,.....per dozen sets, $13.50

No. 132.

EXTRA LIGHT NEW YORK THREE BOW PATTERN.

Trade Mark.

Fig. 9.



9-16 in. by 3-16 in. Section at first hole. *a*

Extra Light Three Bow, with three long Bows, with Brass Bushing, per dozen sets, $13.50

These Bow Irons are made of the best material, of an extra finish, and the lower part of each Slat is made thicker to prevent breaking at the lower hole or below it. The *edges* are brought to a *sharp edge*, and the holes are countersunk ready for use.

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SMITH'S THREE BOW OVAL FORGED SLAT IRONS.

No. 133.

LIGHT NEW YORK THREE BOW PATTERN.

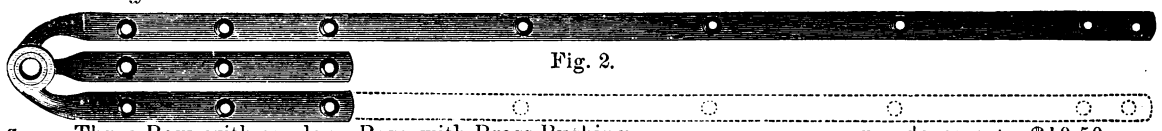
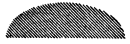


Fig. 2.



5-8 in. by 3-16 in.

Section at first hole, *a*.

Three Bow, with one long Bow, with Brass Bushing,..... .....per dozen sets, $10.50

Three Bow, with two long Bows, as per dotted lines, with Brass Bushing, " " " 12.00

Made with a Brass Sleeve running through the Slats to give them free action, and prevent their binding on the Nut and turning it off.

No. 134.

HEAVY NEW YORK THREE BOW PATTERN.

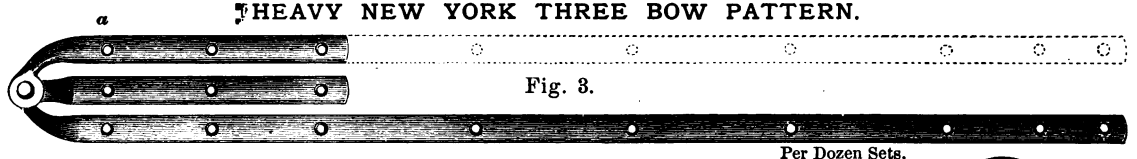


Fig. 3.



5-8 in. by 7-32 in.

Section at first hole, *a*.

Per Dozen Sets.

Three Bow, with one long Bow, *no* Bushing,.....$10.50

Three Bow, with two long Bows, as per dotted lines, *no* Bushing,... 12.00

Trade Mark.



No. 135.

EXTRA HEAVY NEW YORK THREE BOW PATTERN.

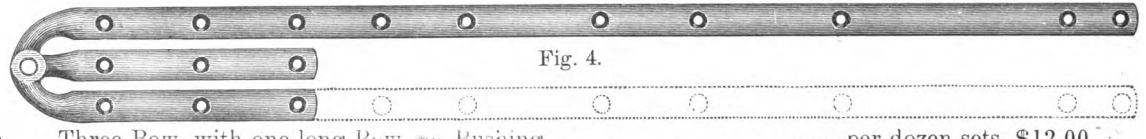


Fig. 4.



11-16 in. by 1-4 in.

Section at first hole, *a*.

Three Bow, with one long Bow, *no* Bushing,.....per dozen sets, $12.00

Three Bow, with two long Bows, as per dotted lines, no Bushing,..... " " " 14.00

These Bow Irons are made of the best material, of an extra finish, and the lower part of each Slat is made thicker to prevent breaking at the lower hole or below it. The *edges* are brought to a *sharp edge*.

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SMITH'S OVAL FORGED SLAT IRONS.

No. 137.

NEW YORK FOUR BOW PATTERN.

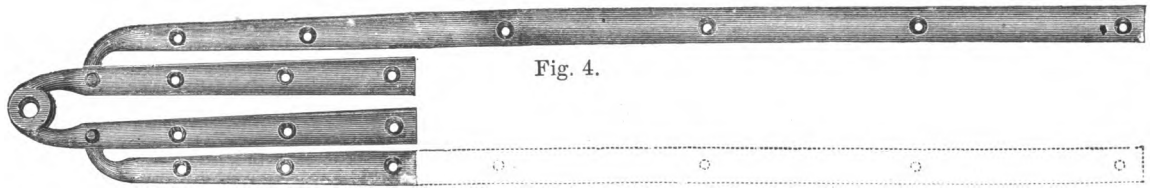


Fig. 4.



5-8 in. by 1-4 in.
Section at first hole, middle Slat.

No. 138.

EXTRA LIGHT NEW YORK FOUR BOW PATTERN.

Trade Mark.

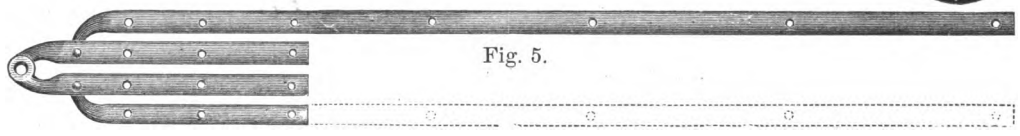


Fig. 5.



9-16 in. by 3-16 in.
Section at first hole, middle Slat.

Four Bow, one long Bow,	per dozen sets,			$10 50
Extra Light Four Bow, one long Bow,	"	"	"	10.50
Four Bow, two long Bows, as per dotted lines,	"	"	"	12.00
Extra Light Four Bow, two long Bows, as per dotted lines,	"	"	"	12.00

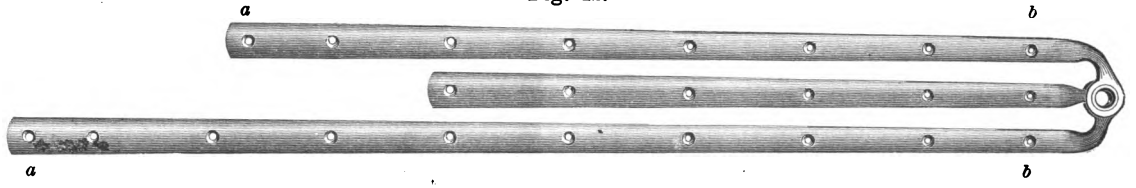
These Bow Irons are made of the best material, of an extra finish, and the lower part of each Slat is made thicker to prevent breaking at the lower hole or below it. The *edges* are brought to a *sharp edge*.

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TAPER PATTERN, THREE BOW OVAL SLAT IRONS.

No. 139.

Fig. 12.



Trade Mark.

Fig. 13.

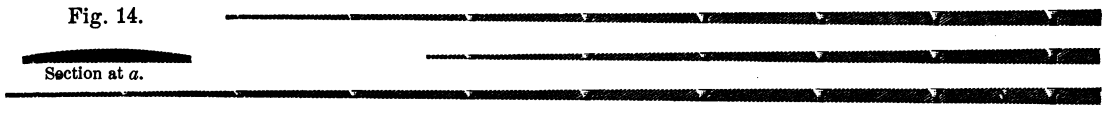


Fig. 14.

Section at *a*.

Fig. 15.



9-16 by 3-16 inch.
Section at first hole *b*.

The Best Slat Iron made; fits the Taper of the Bow.

Three Bows, with Brass Bushing,.....per dozen sets, $24.00

The above Slats are made of the best Norway Iron, with Bow Irons of Lengths as follows: Back Bow Iron, 27 inches, Front Bow Iron, 20 inches, Middle Bow Iron, 16 inches.

Each Bow Iron is tapered two ways, (as shown in Figs. 12, 13, 14, and 15), to fit the taper of the Wood Bows.

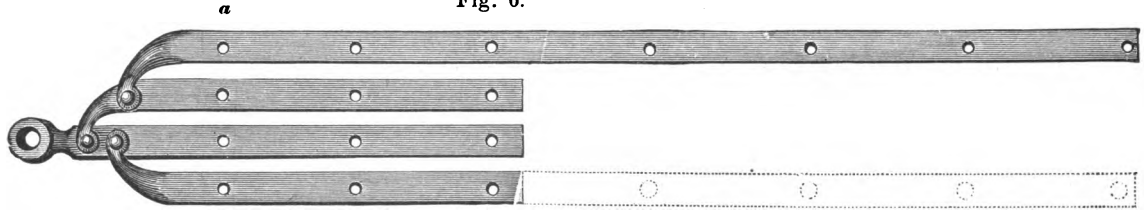
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FORGED SLAT IRONS.

No. 140.

SMITH'S IMPROVED PHILADELPHIA PATTERN.

Fig. 6.



5-8 in. by 5-32 in.
Section at first hole, *a*

Made of the Best Norway Iron.

Fig. 7.



Trade Mark.

Three	Bow, one long Bow,	per dozen sets,	$6.50
Three	Bow, two long Bows, as per dotted lines,	" "	7.50
Four	Bow, one long Bow,	" "	7.50
Four	Bow, two long Bows, as per dotted lines,	" "	8.50
Five	Bow, one long Bow,	" "	9.50
Five	Bow, two long Bows, as per dotted lines,	" "	10.50
Six	Bow, one long Bow,	" "	11.50

As shown in Fig. 7, the Middle Bow Iron is made with a thick head, giving a wide bearing on the Seat Iron, which prevents it from wearing, and gives it greater strength. The lower part of each Bow Iron is made thicker to prevent breaking at the lower hole, or below it.

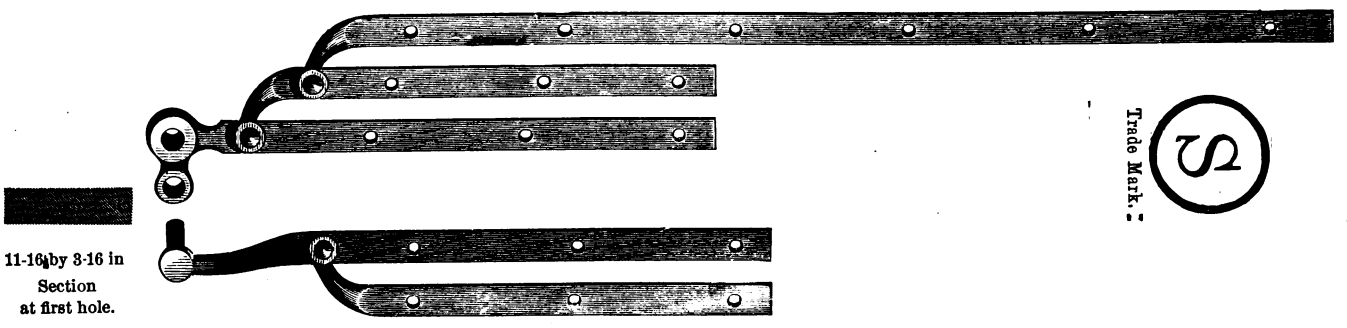
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FORGED SLAT IRONS.

No. 143.

PHILADELPHIA EXTENSION TOP PATTERN.

Fig. 11.



Four Bow Extension Top,	per dozen sets,		$15.00
Five Bow Extension Top,	"	"	16.50
Six Bow Extension Top,	"	"	20.00

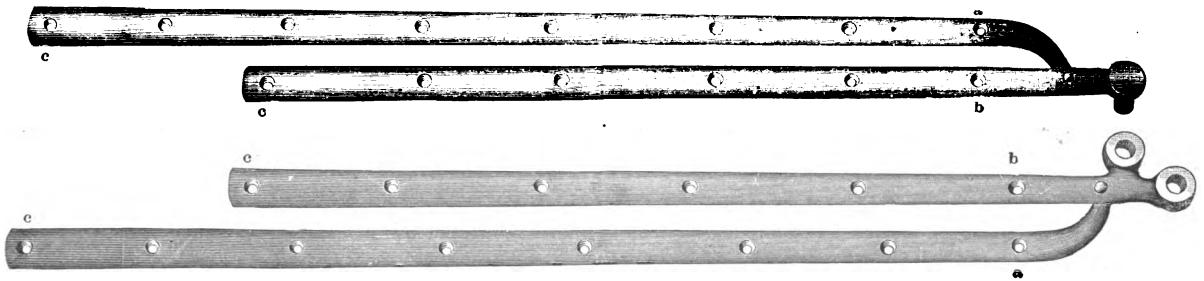
The above Bow Irons are made heavy, of the Best Norway Iron, for Extension Top Carriages.

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EXTENSION TAPER PATTERN, OVAL SLAT IRON.

No. 144.

Fig. 16.



The Best Slat Iron made; fits the Taper of the Bow.

Four Bows,.....per dozen sets, $50.00
Five Bows,..... " " 60.00

The above Slats are made of the best Norway Iron, with Bow Irons of Lengths as follows: Outside Bow Irons, 26 inches, Middle Bow Irons, 22 inches.

Each Bow Iron is tapered two ways (as shown in Figs. 16, 17, 18, 19, and 20), to fit the taper of the Wood Bows. Figs. 18, 19, and 20 show full sized sections at *c*, *a*, and *b*.

Trade Mark.

Fig. 17.

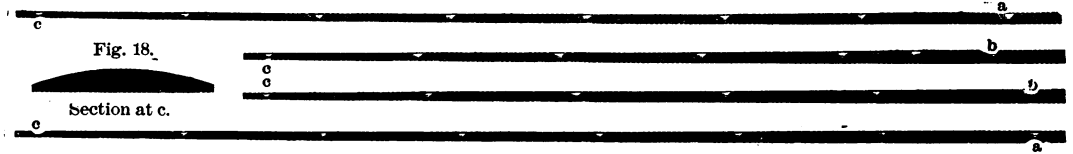


Fig. 18.

Section at c.

Fig. 19.



11-16 in. by 7-32 in.
Section at first hole, *a*.

Fig. 20.



21-32 in. by 1-4 in.
Section at first hole, *b*.

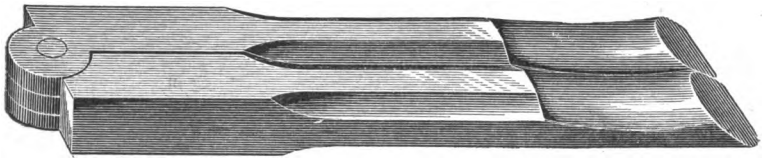
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SMITH'S SOLID TOP JOINT.

No. 150.

SHORT PATTERN.

Trade Mark.



Economy to use them in place of the Stump Joint.

1-2 inch	by	$\frac{1}{2}$	inch, ... per dozen,		$3.50
9-16	"	$\frac{1}{2}$	" ..... "	"	3.75
9-16	"	$\frac{9}{16}$	" ..... "	"	4.00
5-8	"	$\frac{1}{2}$	" ..... "	"	4.25
5-8	"	$\frac{5}{8}$	" ..... "	"	4.50

Packed in paper boxes of one dozen each.

The corners of these Joints are milled to a true bevel, forming sharp, well-defined angles, and making a finished Joint of symmetrical form by simply welding the Joint Eye to it.

They are made of the highest grade of iron, milled to an accurate fit, and we offer them as the best Joint in market.

SLAT IRON HOLDER.

No. 149.



No. 1,	Shank,	$\frac{3}{8}$	inch, ... per dozen,		$1.00
" 2,	"	$\frac{7}{16}$	" ..... "	"	1.00

Holders for Slat Irons with Bushings have Collar $\frac{7}{8}$ inch diameter.
" " " " without " " " $\frac{3}{4}$ " "

In ordering, state which Pattern of Slat Irons you wish to fit.

The above Slat Iron Holders (or goosenecks) are made of Norway Iron, and are *milled* to fit our Slat Irons.

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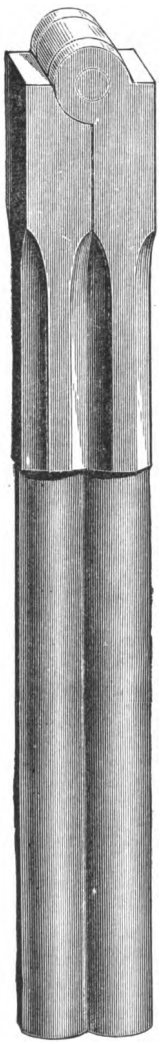
SMITH'S SOLID TOP JOINT.

No. 151.

LONG PATTERN.

Trade Mark.

A-



B-

An Improvement on the Stump Joint.

Milled, without Plate.

1-2	inch by	½	inch,	per dozen,	$4.00
9-16	"	½	"	"	4.50
9 16	"	9/16	"	"	5.00
5-8	"	½	"	"	5.00
5-8	"	⅝	"	"	5.50
3-4	"	½	"	"	8.00
3-4	"	⅝	"	"	9.00

Packed in paper boxes of one dozen each.

Close Plated with Heavy Silver from A to B.

1-2	inch by	½	inch,	per dozen,	$7.00
9-16	"	½	"	"	7.50
9-16	"	9/16	"	"	8.00
5-8	"	½	"	"	8.00
5-8	"	⅝	"	"	8.50
3-4	"	½	"	"	12.00
3-4	"	⅝	"	"	13.00

Packed in paper boxes of one dozen each.

This Joint is forged *solid*, of suitable length to complete the Prop Joint by one weld to the Short Joint Eye, and *afterward* accurately milled, and the extra length prevents the knuckle from being warped out of true by the heat in welding.

The whole Joint (except the oval part) is milled to sharp, well-defined angles, and to an accurate fit.

They are of a pattern that makes a good finish, and will be found a very desirable substitute for the Stump Joint.

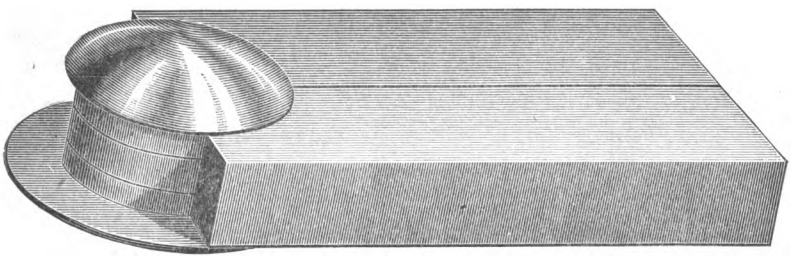
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COACH STUMP JOINTS.

No. 152.

WITH RIVET AND WASHER.

Trade Mark.



SMITH'S MILLED.				Per Dozen.
7-8 inch by	½	inch,	.....	$7.75
7-8 "	⅝	"	.....	8.75
1 "	½	"	.....	11.50
1 "	⅝	"	.....	13.50
1⅛ "	⅝	"	.....	15.50
1¼ "	⅝	"	.....	17.50

"ANVIL," OR HALF-MILLED.				Per Dozen.
7-8 inch by	½	inch,	.....	$7.25
7-8 "	⅝	"	.....	7.75
1 "	½	"	.....	9.00
1 "	⅝	"	.....	10.00
1⅛ "	⅝	"	.....	10.50
1¼ "	⅝	"	.....	11.50

Put up in paper boxes of half dozen each.

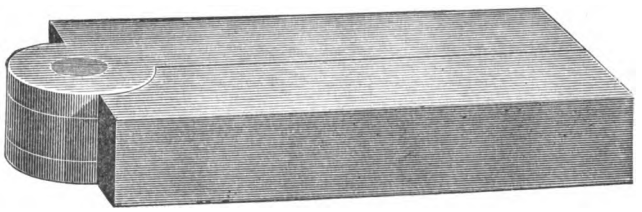
The above Joints are fitted with a 5-16 inch Norway Iron Turned Rivet and Wrought Iron Washer, and are otherwise the same as offered on pages 51 and 52, without Rivets and Washers.

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SMITH'S MILLED STUMP JOINTS.

No. 153.

Trade Mark.



Each Joint is milled to exact size.

	Per dozen.
1-2 inch by $\frac{3}{8}$ inch,	$2.10
1-2 " $\frac{7}{16}$ "	2.10
1-2 " $\frac{1}{2}$ "	2.10
9-16 " $\frac{3}{8}$ "	2.35
9-16 " $\frac{7}{16}$ "	2.35
9-16 " $\frac{1}{2}$ "	2.35
9-16 " $\frac{9}{16}$ "	2.35
5-8 " $\frac{3}{8}$ "	2.60
5-8 " $\frac{7}{16}$ "	2.60
5-8 " $\frac{1}{2}$ "	2.60
5-8 " $\frac{9}{16}$ "	2.60
5-8 " $\frac{5}{8}$ "	2.60

	Per dozen.
3-4 inch by $\frac{3}{8}$ inch,	$4.50
3-4 " $\frac{7}{16}$ "	5.00
3-4 " $\frac{1}{2}$ "	5.00
3-4 " $\frac{5}{8}$ "	5.00
3-4 " $\frac{3}{4}$ "	7.50
7-8 " $\frac{1}{2}$ "	6.50
7-8 " $\frac{5}{8}$ "	7.50
1 " $\frac{1}{2}$ "	10.00
1 " $\frac{5}{8}$ "	12.00
$1\frac{1}{8}$ " $\frac{5}{8}$ "	14.00
$1\frac{1}{4}$ " $\frac{5}{8}$ "	16.00

Packed with Joints folded, in paper boxes of one dozen each.

The iron from which these Joints are made is distinguished for two qualities most desirable in a Joint — *strength* and *stiffness*. Our method of forging is such as to preserve the greatest possible strength and stiffness of the iron when made into Joints.

They are drawn down from bars of iron double the size of the Joint when finished, without upsetting the iron for the Joint head, which leaves the original strength of the iron where it is most needed.

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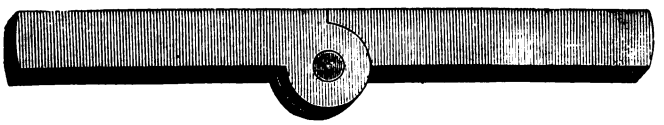
ANVIL STUMP JOINTS.

No. 154.

MILLED ON TWO SIDES.



Trade Mark.



Made of Norway Iron.

1-2 inch by	3/8	inch,	per dozen,	$1.55
1-2 "	1/2	"	" "	1.55
9-16 "	1/2	"	" "	1.65
9-16 "	9/16	"	" "	1.75
5-8 "	3/8	"	" "	1 75
5-8 "	7/16	"	" "	1.75
5-8 "	1/2	"	" "	1.87
5-8 "	5/8	"	" "	2.00
3-4 "	1/2	"	" "	3.38
3-4 "	5/8	"	" "	3.87
7-8 "	1/2	"	" "	6.00
7-8 "	5/8	"	" "	6.50
1 "	1/2	"	" "	7.50
1 "	5/8	"	" "	8.50
1 1/8 "	5/8	"	" "	9 00
1 1/4 "	5/8	"	" "	10.00

These Joints are forged from a good quality of iron by the same process as our best Joints are, and milled on two sides only.

Packed with Joints opened out, in paper boxes of one dozen each.

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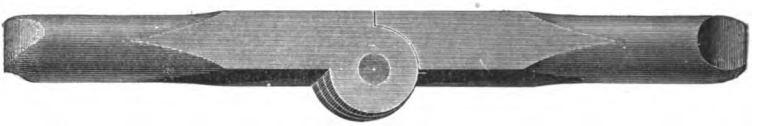
SWAGED STUMP JOINTS.

No. 156.

"ANVIL" NORWAY IRON.



Trade Mark.



MILLED ON TWO SIDES.

$\frac{1}{2}$	inch by $\frac{1}{2}$	inch,	per dozen,	$1.55
$\frac{9}{16}$	" $\frac{1}{2}$	"	" "	1.65
$\frac{9}{16}$	" $\frac{9}{16}$	"	" "	1.75
$\frac{5}{8}$	" $\frac{7}{16}$	"	" "	1.87
$\frac{5}{8}$	" $\frac{1}{2}$	"	" "	1.87
$\frac{5}{8}$	" $\frac{5}{8}$	"	" "	2.00
$\frac{3}{4}$	" $\frac{1}{2}$	"	" "	3.38

Packed in paper boxes of one dozen each.

No. 157.

HAMMER BRAND.



MILLED ON TWO SIDES.

$\frac{1}{2}$	inch by $\frac{1}{2}$	inch,	per dozen,	$1.55
$\frac{9}{16}$	" $\frac{1}{2}$	"	" "	1.65
$\frac{9}{16}$	" $\frac{9}{16}$	"	" "	1.75
$\frac{5}{8}$	" $\frac{1}{2}$	"	" "	1.87
$\frac{5}{8}$	" $\frac{5}{8}$	"	" "	2.00
$\frac{3}{4}$	" $\frac{1}{2}$	"	" "	3.38

Packed in paper boxes of one dozen each.

The Hammer Brand Joint, though not equal to the "Anvil" Brand, will be found well made, and a good Joint for the price.

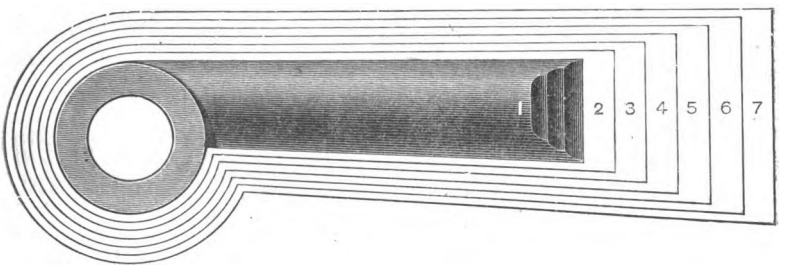
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SMITH'S

OVAL SHORT JOINT ENDS.

No. 160.

MADE OF NORWAY IRON.

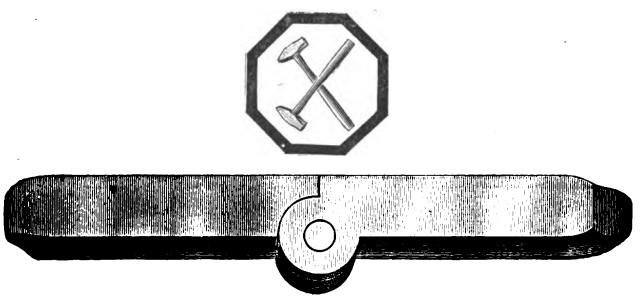


A Set consists of Eight Pieces.

		Per Set.
No. 1,	for $\frac{1}{2}$ inch iron. $\frac{3}{8}$ inch, $\frac{11}{32}$ inch, or $\frac{7}{16}$ inch holes,	$0.40
" 2,	" $\frac{9}{16}$ " " $\frac{3}{8}$ " $\frac{11}{32}$ " $\frac{7}{16}$ " "	.45
" 3,	" $\frac{5}{8}$ " " $\frac{3}{8}$ " $\frac{11}{32}$ " $\frac{7}{16}$ " "	.50
" 5,	" $\frac{3}{4}$ " " $\frac{7}{16}$ " hole,	.85
" 6,	" $\frac{7}{8}$ " " $\frac{7}{16}$ " "	1.10
" 7,	" 1 " " $\frac{7}{16}$ " "	1.25

HAMMER BRAND STUMP JOINTS.

No. 155.



MILLED ON TWO SIDES.

1-2 inch by $\frac{1}{2}$ inch,	per dozen,	$1.55
9-16 " $\frac{1}{2}$ "	"	1.65
9-16 " $\frac{9}{16}$ "	"	1.75
5-8 " $\frac{1}{2}$ "	"	1.87
5-8 " $\frac{5}{8}$ "	"	2.00

Packed in paper boxes of one dozen each.

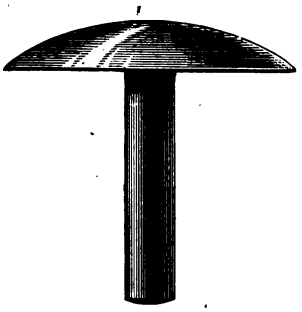
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Forged Joint Rivets and Washers.

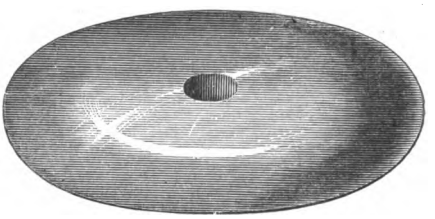
WITHOUT PLATE.

Trade Mark.

No. 162.



No. 163.



					Per dozen.
No. 1, for $\frac{1}{2}$ in. Joints,	Washer, $1\frac{1}{8}$ in.,	Rivet, $\frac{13}{16}$ in.,	$0.70
" 2, " $\frac{1}{2}$ and $\frac{9}{16}$ inch Joints.	" $1\frac{1}{8}$ "	" $\frac{15}{16}$ "	.70
" 3, " $\frac{5}{8}$ " "	" $1\frac{5}{16}$ "	" 1 "	.90
" 4, " $\frac{5}{8}$ " "	" $1\frac{5}{16}$ "	" $1\frac{1}{8}$ "	.90
" 5, " $\frac{3}{4}$ " "	" $1\frac{1}{2}$ "	" $1\frac{1}{4}$ "	1.00
" $5\frac{1}{2}$, " $\frac{7}{8}$ " "	" $1\frac{7}{8}$ "	" $1\frac{5}{16}$ "	1.25
" 6, " 1 and $1\frac{1}{8}$ " "	" $2\frac{1}{8}$ "	" $1\frac{9}{16}$ "	1.50
" $6\frac{1}{2}$, " $1\frac{1}{4}$ " "	" $2\frac{1}{4}$ "	" $1\frac{13}{16}$ "	1.50

Stems of Rivets Nos. 2, 3, 4, and 5, are $\frac{1}{4}$ inch diameter, and Nos. $5\frac{1}{2}$, 6, and $6\frac{1}{2}$, are $\frac{5}{16}$ inch diameter.

For other Patterns of Rivets, see page 56.

Center of Rivet and Washer being raised, injury to paint on the Joint is prevented.

The Rivet is forged of Norway Iron, and the Head and Stem milled to fit our Joints.

The Washer is a smooth forging but not milled.

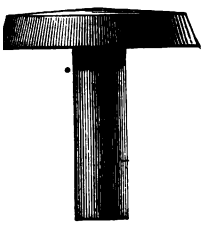
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Norway Iron Turned Joint Rivets.

WITHOUT PLATE.

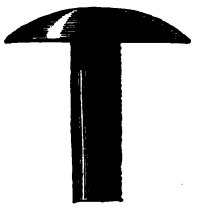
Trade Mark.

No. 165.



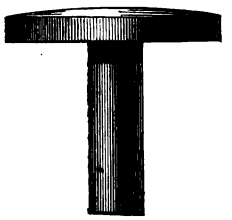
BEVEL HEAD.

No. 162.



OVAL HEAD.

No. 166.



CHEESE HEAD.

The above Rivets are forged of the **best Norway Iron**, of size suitable to fit our Stump Joints.

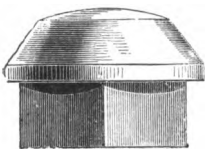
No.	1,	Oval Head,	$1\frac{3}{16}$	inch	diameter,	.....	per	gross,	$4.00
"	2,	" "	$1\frac{5}{16}$	"	"	.....	"	"	4.00
"	3,	" "	1	"	"	.....	"	"	6.00
"	4,	" "	$1\frac{1}{8}$	"	"	.....	"	"	6.00
"	5,	" "	$1\frac{1}{4}$	"	"	.....	"	"	7.00
"	$5\frac{1}{2}$,	" "	$1\frac{5}{16}$	"	"	.....	"	"	9.00
"	6,	" "	$1\frac{9}{16}$	"	"	.....	"	"	9.00
"	$6\frac{1}{2}$,	" "	$1\frac{13}{16}$	"	"	.....	"	"	10.00
"	7,	Bevel Head,	1	"	"	.....	"	"	6.00
"	8,	" "	$1\frac{1}{8}$	"	"	.....	"	"	6.00
"	9,	" "	$1\frac{1}{4}$	"	"	.....	"	"	7.00
"	10,	Cheese Head,	$\frac{7}{8}$	"	"	.....	"	"	5.00
"	11,	" "	1	"	"	.....	"	"	6.00
"	12,	" "	$1\frac{1}{8}$	"	"	.....	"	"	6.00

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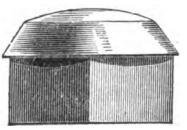
SOLID CAPPED PROP NUTS.

SILVER OR OROIDE.

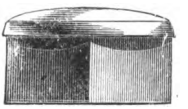
Trade Mark.



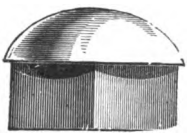
No. 12.
DEEP BEVEL.



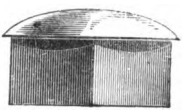
No. 13.
BEVEL.



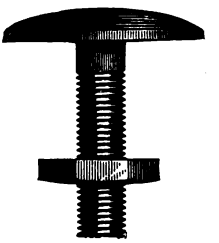
No. 14.
OVAL.



No. 15.
FULL BULL'S EYE.



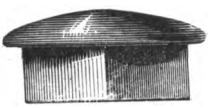
No. 16.
SHALLOW BULL'S EYE.



No. 19.
BLACK RIVET.



No. 18.
BLACK IMITATION STITCHED.



No. 19.
PLAIN BLACK.

Gold Plated and Leather Covered Nuts and Rivets furnished to order.

No. 12,	Solid Capped Nuts, with	$\frac{7}{8}$ or 1	inch Cap, per gross,	$6.00
" 13,	"	"	"	"	$\frac{7}{8}$ or 1	"	"	"	"	6.00
" 14,	"	"	"	"	$\frac{7}{8}$ or 1	"	"	"	"	6.00
" 15,	"	"	"	"	$\frac{7}{8}$ or 1	"	"	"	"	6.00
" 15,	"	"	"	"	$1\frac{1}{4}$	"	"	"	"	10.00
" 16,	"	"	"	"	$\frac{7}{8}$ or 1	"	"	"	"	6.00
" 12 or 16,	"	"	"	"	$1\frac{1}{8}$	"	"	"	"	8.00
" 12,	"	"	"	"	$1\frac{1}{4}$	"	"	"	"	10.00
" 12,	"	"	"	"	$1\frac{1}{2}$	"	"	"	"	15.00
" 18,	Black Enameled Nuts, ...							"	"	5.00
" 19,	"	"	"					"	"	5.00

Rivets Capped to match these Nuts, same list price as Nuts.

Put up in paper boxes of one-half gross each.

In ordering, state whether Nuts are wanted to fit $\frac{7}{16}$ inch shank, or $\frac{3}{8}$ inch shank. By so doing, errors and unnecessary delay will be avoided.

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THOMAS' FORGED PROPS.

No. 182.



Forged from one Solid piece of the Best Norway Iron.

State whether wanted with 3-8 or 7-16 inch Shank.

Without Nuts or Rivets,.....per set, $0.60

With No. 12, No. 13, No. 14, No. 15, or No. 16

Silver Capped Nuts and Rivets, ⅞ in. or 1 in. Caps,....per set, .90

With No. 18 or No. 19 Black Enameled Nuts and Rivets, " " .75

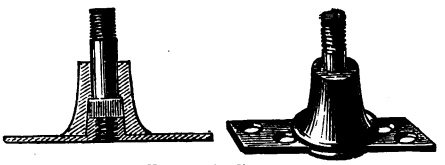
Put up in paper boxes of four sets each.

See Illustrations of Capped Nuts and Rivets, pages 56 and 57.

SMITH'S TOP PROPS.

No. 183.

BUGGY PATTERN.



Forged Stems.

State whether wanted with 7-16 or 3-8 inch Shank.

Without Nuts or Rivets,.....per set $0.35

With No. 12, No. 13, No. 14, No 15, or No. 16

Silver Capped Nuts and Rivets, ⅞ or 1 in. Caps,.....per set, .70

With No. 18 or No. 19 Black Enameled Nuts and Rivets, " " .60

Put up in paper boxes of four sets each.

See Illustrations of Capped Nuts and Rivets, pages 56 and 57.

The "Smith" Top Props are designed to facilitate fitting the leather over the Prop, and have a wrought iron shank that screws into the plate of the Prop, which has a square ⅛ of an inch high raised upon it, corresponding to the square on the shank.

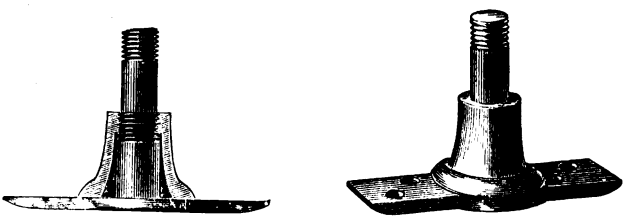
The square in the collar, fitting over the square on the shank and plate, keeps the collar from turning, and makes it impossible for the shank to unscrew or work loose.

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THOMAS' TOP PROPS.

No. 184.

LANDAU PATTERN.



Made of Malleable Iron.

Landau Pattern, without nuts,.....per set. $0 50
" " with Forged Iron Nuts,..... " " .75

Landau Props have a shank ½ inch in diameter, and are made for the heavier class of work.

Extra Silver or Gold Plated Nuts and Rivets, suitable for these Props, furnished to order with Nos. 12 *and* 15 *Caps* 1¼ *inch, or No.* 12 *Caps* 1½ *inch diameter.*

THOMAS' TOP PROPS.

No. 186.

BUGGY PATTERN.



Made of Malleable Iron.

Without Nuts or Rivets,.....per set, $0.20
With No. 12, No. 13, No. 14, No. 15, or No. 16
Silver Capped Nuts and Rivets,.....per set, 0.65
With No. 18 or No. 19 Black Enameled Nuts and Rivets, " " .50

Put up in paper boxes of four sets each.

See Illustrations of Capped Nuts and Rivets, pages 56 and 57.

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Canopy Top Socket and Standard.

Trade Mark.

No. 190.
STANDARD.
Fig. 1.



Thread End, $\frac{1}{2}$ inch by $1\frac{1}{2}$ inch.
Collar, $\frac{15}{16}$ " Diameter.
No, 1 Standard, per doz., $1.50

No. 191.
OVAL PATTERN SOCKET.
Fig. 2.

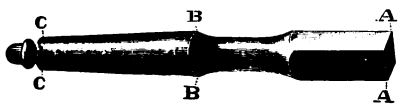


Eye 1 in. by $1\frac{1}{8}$ in., Hole $\frac{1}{2}$ in.

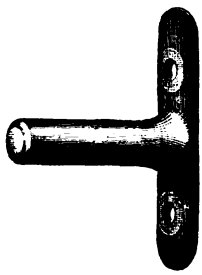
Per dozen.
No. 1 Oval Socket,.....$1.50

UNFINISHED LAMP PROP.

No. 192.
PROP END.
Fig. 3.



No. 193.
PROP BASE.
Fig. 4.



Forged from the Best Norway Iron.

Length of Prop End from B to C, $2\frac{1}{2}$ inches.

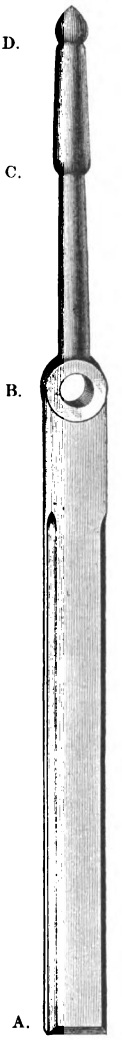
			Diameter.		Diameter.		
No. 1	Prop	End, at C,	$\frac{13}{32}$ inch,	at B,	$\frac{5}{8}$ inch,	.....per 100,	$7.00
" 2	"	" " C,	$\frac{1}{2}$ "	" B,	$\frac{21}{32}$ "	..... "	7.00
" 2	"	Base,.....				per pair,	.25

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Canopy Top Sockets and Standard.

Trade Mark.

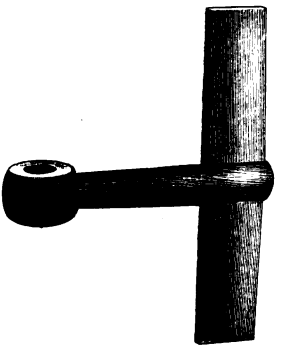
No. 195.
FRONT SOCKET
PROP PATTERN.
Fig. 6.



BACK SOCKET T PATTERN.

No. 194.

Fig. 5.



Holes $\frac{1}{2}$ inch, Arm of Back Socket Fig. 5, from flat part to center of hole, $2\frac{11}{16}$ inch. Front Socket from A to B, 10 inch by 1 inch, B to C $3\frac{1}{2}$ inch, C to D 2 inch. Diameter at C $\frac{9}{16}$ inch, at D $\frac{7}{16}$ inch.

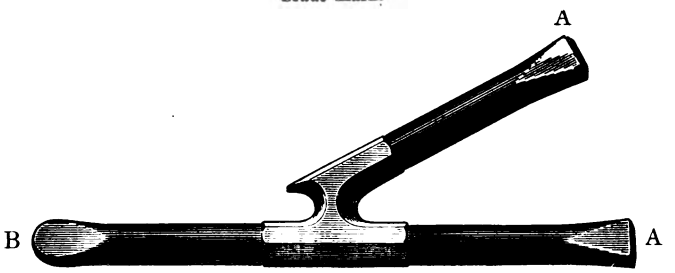
T Back Sockets,	per dozen,	$4.00
Front Sockets,	"	4.00
Standard, (see page 60),	"	1.50

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POINT OCTAGON OFFSETS.

No. 200.

Trade Mark.



Forged Solid of one piece of the best Norway Iron.

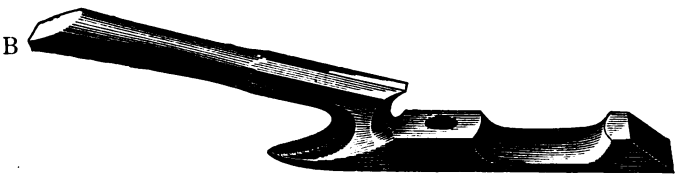
No. 0, Arm B 7-16 inch; Arms AA 3-8 inch,.....per dozen, $2.00
No. 1, " B 1-2 " " AA 7-16 " ..... " " 2.35
No. 2, " B 9-16 " " AA 1-2 " ..... " " 2.65

Packed in paper boxes of two dozen each.

FRONT STAY ENDS.

No. 201.

POINT OCTAGON PATTERN.



Forged Solid of one piece of the best Norway Iron.

No. 0, Round part B 7-16 inch,.....per dozen, $2.10
No. 1, " " B 1-2 " ..... " " 2.50
No. 2, " " B 9-16 " ..... " " 2.75

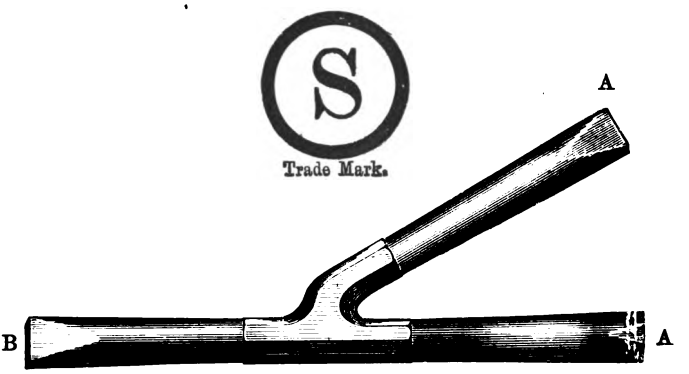
Packed in paper boxes of two dozen each.

Point Pattern Octagon Offsets and Stay Ends are made to match, and are designed to be used together. The holes in the Stay Ends are one-half of them made square to fit a bolt square under the head.

Digitized by Google

PLAIN OCTAGON OFFSETS.

No. 202.



Forged Solid of One Piece of the Best Norway Iron.

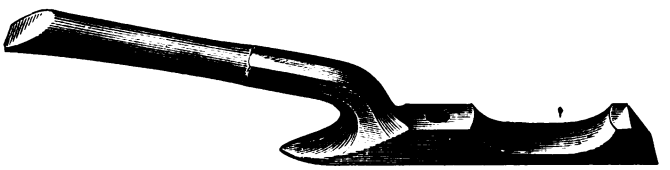
No. 0, Arm B 7-16 inch; Arms AA, 3-8 inch,.....per dozen, $1.85
" 1, " B 1-2 " " AA, 7-16 " ..... " 2.25
" 2, " B 9-16 " " AA, 1-2 " ..... " 2.50

Packed in paper boxes of two dozen each.

FRONT STAY ENDS.

No. 203.

PLAIN OCTAGON PATTERN.



Forged Solid of One Piece of the Best Norway Iron.

No. 0, Round part B 7-16 inch,.....per dozen, $2.00
" 1, " " B 1-2 " ..... " 2.40
" 2, " " B 9-16 " ..... " 2.65

Packed in paper boxes of two dozen each.

Plain Pattern Octagon Offsets and Stay Ends are made to match.

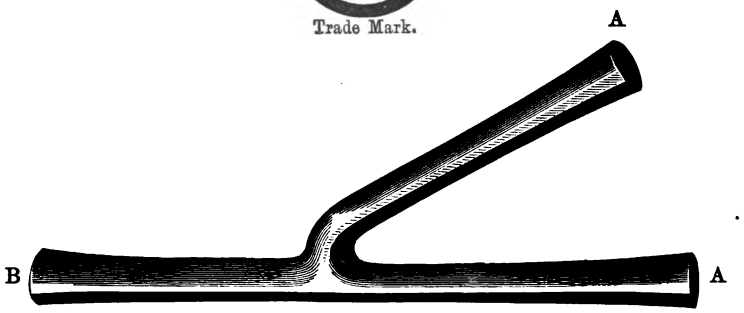
The holes in the Stay Ends are one-half of them made square, to fit a bolt square under the head.

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OVAL OFFSETS.

No. 204.

Trade Mark.



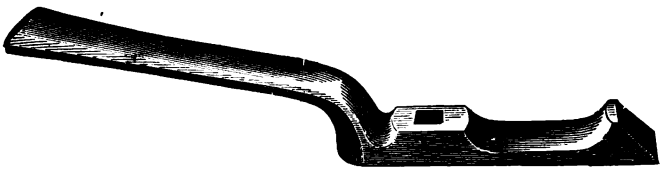
Forged Solid of One Piece of the Best Norway Iron.

	Per dozen.
No. 0, Arm B 1-2 in. by 3-8 in.; Arms AA 1-2 in. by 5-16 in.,	$1.50
" 1, " B 5-8 " 3-8 " " AA 5-8 " 5-16 "	1.75

Packed in paper boxes of two dozen each.

OVAL FRONT STAY ENDS.

No. 205.



No. 0, Oval Part 1-2 inch by 3-8 inch,.....per dozen,	$0.80
" 1, " " 5-8 " 3-8 " ..... "	1.00

Packed in paper boxes of two dozen each.

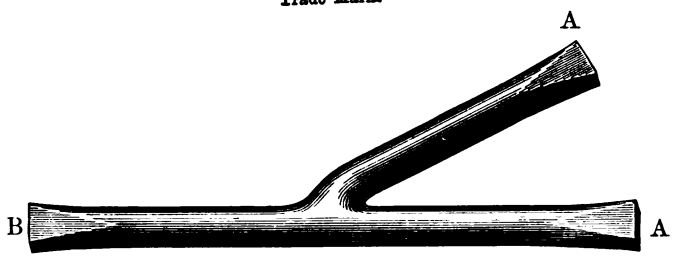
The Oval Pattern of Offsets and Stay Ends are made to match.

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ROUND OFFSETS.

No. 206.

Trade Mark.



Forged Solid of one piece of the Best Norway Iron.

No. 0,	Arm	B 7-16 inch;	Arms	AA 3-8 inch,	.....	per dozen,	$1.50
" 1,	"	B 1-2 "	"	AA 7-16 "	.....	" "	1.75
" 2,	"	B 9-16 "	"	AA 1-2 "	.....	" "	1.90

Packed in paper boxes of two dozen each.

ROUND FRONT STAY ENDS.

No. 207.



No. 0,	Round Part	B 7-16 inch,	.....	per dozen,	$0.80
" 1,	" "	B 1-2 "	.....	" "	1.00
" 2,	" "	B 9-16 "	.....	" "	1.25

Packed in paper boxes of two dozen each.

Round Pattern Offsets and Stay Ends are made to match. The holes in the Stay Ends are one-half of them made square, to fit a bolt square under the head.

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HEAVY OVAL FRONT STAY END.

No. 208.

FOR ROCKAWAYS.

Trade Mark.

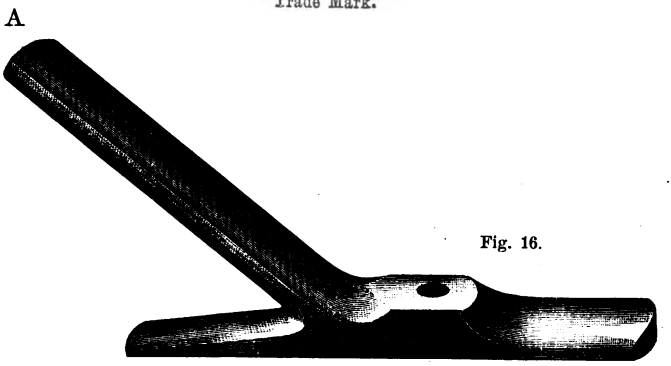


Fig. 16.

No. 3, Fig. 16, Oval part A, $\frac{3}{4}$ by $\frac{1}{2}$ inch, hole $\frac{3}{8}$ inch, per dozen, $4.50

Packed in paper boxes of one dozen each.

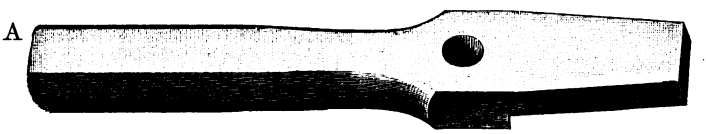
One-half the above Stay Ends have a round hole and one-half have a square hole.

HEAVY

PLAIN OVAL AXLE STEP SHANK.

No. 209.

Fig. 15.



No. 4, Fig. 15, Oval part A, $\frac{7}{8}$ by $\frac{7}{8}$ inch, hole $\frac{3}{8}$ inch, per dozen, $2.50

Packed in paper boxes of one dozen each.

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HEAVY OVAL BACK STAY ENDS.

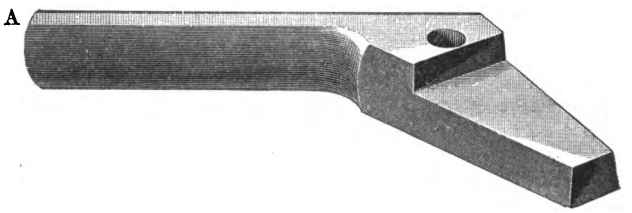
No. 210.

FOR ROCKAWAYS.

S

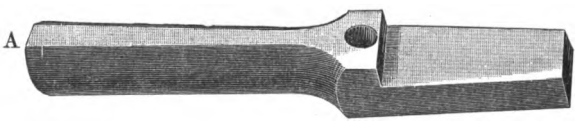
Trade Mark.

Fig. 13. RIGHTS AND LEFTS.



No. 211.

Fig. 14.



No. 3, Fig. 13, Oval part A, $\frac{3}{4}$ by $\frac{9}{16}$ in., hole $\frac{3}{8}$ in., per dozen, $1.75

No. 3, " 14, " " A, $\frac{3}{4}$ " $\frac{5}{8}$ " " $\frac{5}{16}$ " " " 1.50

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SMITH'S BACK STAY ENDS.

No. 212.

SMOOTH FINISH ROUND PATTERN.

Trade Mark.

Fig. 7.

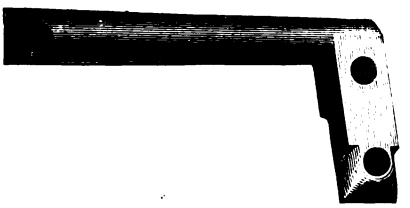


Fig. 8.

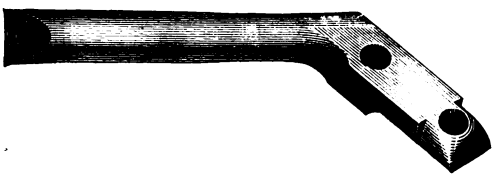


Fig. 5.

A 

No.	0,	Round	part,	3-8	inch,	for	$\frac{7}{8}$	inch	Axle,	per dozen,	$1.05
"	1,	"	"	7-16	"	"	$\frac{7}{8}$	"	"	"	1.20
"	1,	"	"	7-16	"	"	1	"	"	"	1.20
"	1,	"	"	7-16	"	"	$1\frac{1}{8}$	"	"	"	1.20
"	2,	"	"	1-2	"	"	1	"	"	"	1.40
"	2,	"	"	1-2	"	"	$1\frac{1}{8}$	"	"	"	1.40
"	2,	"	"	1-2	"	"	$1\frac{1}{4}$	"	"	"	1.40

With Plain End like Fig. 5, list prices 30 cents less per dozen.
Put up in paper boxes of two dozen each.

In ordering, state whether wanted like Fig. 7, 8, or 5, and whether Plain or Finished End.

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SMITH'S BACK STAY ENDS.

No. 213.

SMOOTH FINISH OVAL PATTERN.

S

Trade Mark.

Fig. 10.

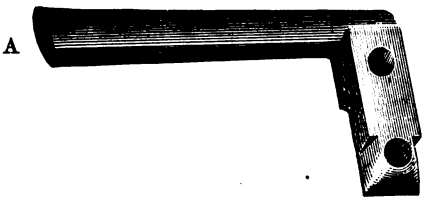


Fig. 11.



Fig. 6.



									Per Dozen.
No. 0, Oval Part	1-2	inch by	5-16	inch for	$\frac{7}{8}$	inch Axle,	.....		$1.05
" 1, " "	5-8	"	3-8	"	$\frac{7}{8}$	" "	.....		1.20
" 1, " "	5-8	"	3-8	"	1	" "	.....		1.20
" 1, " "	5-8	"	3-8	"	$1\frac{1}{8}$	" "	.....		1.20

With Plain End like Fig. 6, list prices 30 cents less per dozen.

Put up in paper boxes of two dozen each.

In ordering, state whether wanted like Fig. 10, 11, or 6, and whether Plain or Finished End.

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BACK PERCH IRONS.

No. 214.

Trade Mark.

PATTERN A.

Fig. 1.



PATTERN B.

Fig. 2.



PATTERN C.

Fig. 3.



PLAIN END, PATTERN C.

Fig. 4.



		Per Dozen Pairs.
Pattern A, $\frac{3}{4}$ inch wide, for $\frac{7}{8}$ inch, 1 inch, and $1\frac{1}{8}$ inch Axle,		$6.00
" A, $\frac{7}{8}$ " " " 1 " $1\frac{1}{8}$ " " $1\frac{1}{4}$ " "		6.75
" B, $\frac{3}{4}$ " " " $\frac{7}{8}$ " 1 " " $1\frac{1}{8}$ " "		6.00
" B, $\frac{7}{8}$ " " " 1 " $1\frac{1}{8}$ " " $1\frac{1}{4}$ " "		6.75
" C, $\frac{3}{4}$ " " " $\frac{7}{8}$ " 1 " " $1\frac{1}{8}$ " "		6.00
" C, $\frac{7}{8}$ " " " 1 " $1\frac{1}{8}$ " " $1\frac{1}{4}$ " "		6.75
" A, B, or C, $\frac{3}{4}$ inch wide, with Plain End, like Fig. 4,		6.00
" A, B, or C, $\frac{7}{8}$ " " " " " " " 4,		6.75

Packed in paper boxes of one dozen pairs each.

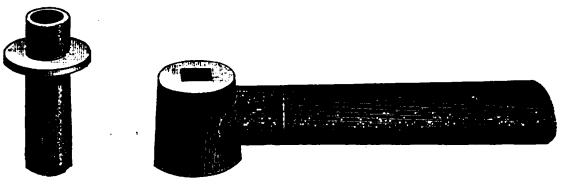
The above Perch Irons are made of the best Norway Iron, and are in all respects a good article.

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BREWSTER BODY LOOP HEADS.

No. 220.

Trade Mark.



Forged from best Norway Iron.

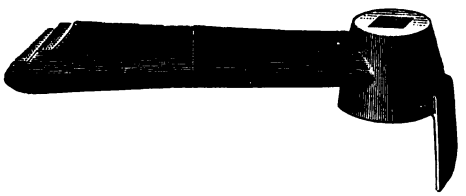
With Brass Thimble, for $\frac{5}{16}$ inch Bolt,.....per dozen, $2.50

The Brass Thimble goes through the Spring Bar and protects the Bolt from strain. A first class article made for fine work.

BODY LOOP HEADS.

No. 221.

OUTSIDE LIP PATTERN.



For	7-8	inch	Bar,	1-4	inch	Bolt,.....	per dozen,	$2.00
"	1	"	"	5-16	"	"	.....	"	" 2.00
"	$1\frac{1}{8}$	"	"	3-8	"	"	.....	"	" 2.00

Put up in paper boxes of one dozen each.

The above are a smooth forging, with a broad, true bearing on the spring bar, and with a wide lip which can be easily shaped with a file to suit any taste, if any change is desired in its form.

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BODY LOOP HEADS.

No. 222.

PLAIN PATTERN.

Trade Mark.



For 1 inch Bar, 1-4 inch Bolt, ...per dozen, $1.50
" 1 1-8 " " 5-16 " " ..... " " 1.50

Put up in paper boxes of one dozen each.

Forged from an iron of extra strength and stiffness, especially adapted to the purpose. The bearings are smooth and true, and the holes part of the way, square to fit the loop bolts.

IRON WASHERS.

Outside Diameter.	Size of Hole.		Per lb.
3-8	by $\frac{3}{16}$	for 1-8 inch Bolts,	$0.35
1-2	" $\frac{1}{4}$	" 3-16 " "	.32
5-8	" $\frac{5}{16}$	" 1-4 " "	.27
3-4	" $\frac{3}{8}$	" 5-16 " "	.22
7-8	" $\frac{7}{16}$	" 3-8 " "	.20
1	" $\frac{1}{2}$	" 7-16 " "	.18
$1\frac{1}{4}$	" $\frac{9}{16}$	" 1-2 " "	.15
$1\frac{1}{2}$	" $\frac{5}{8}$	" 9-16 " "	.13

Put up in paper boxes of one pound each.

Made thin expressly for carriage makers' use.

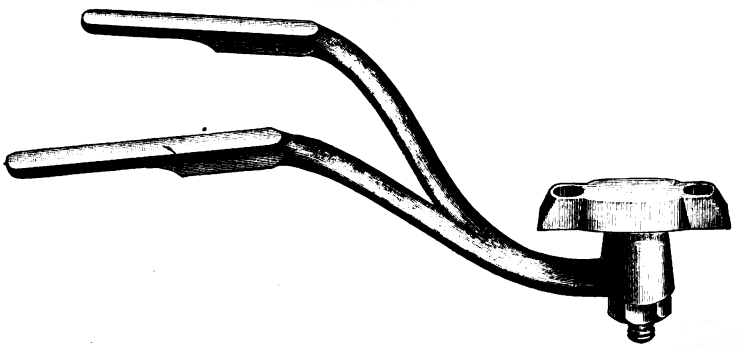
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KING BOLT YOKE AND BRACE.

No. 225.

SMOOTH FINISH DOUBLE PERCH PATTERN.

Trade Mark.



Light, with 5-16 in. Holes in Yoke.

	Per Dozen.
1 inch between holes,	$4.00
1⅛ " " "	4.00
1¼ " " "	4.00
Milled Yokes without Brace,	2.50

Heavy, with 3-8 in. Holes in Yoke.

	Per Dozen.
1⅛ inch between holes,	$5.00
1¼ " " "	5.00
1⅜ " " "	5.00
1½ " " "	5.00
Milled Yokes without Brace,	2.75

With Plain Taper or Swaged Axle Pattern of Yokes, same list prices as above.

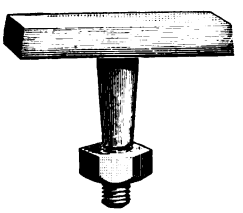
Put up in paper boxes of two dozen each.

The bolt is milled tapering, so that as the nut is screwed up it tightens the Brace on the Bolt, and prevents rattle.

KING BOLT YOKE.

No. 226.

PLAIN TAPER PATTERN.

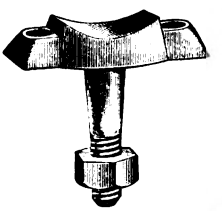


Light, ... per dozen, $2.50

Heavy, ... " 2.75

No. 227.

SWAGED AXLE PATTERN.



	Per Dozen.
Light, for 1 in., 1⅛ in., and 1¼ in. Axle,	$2.50
Heavy, for 1⅛ in., 1¼ in., and 1⅜ in. Axle,	2.75

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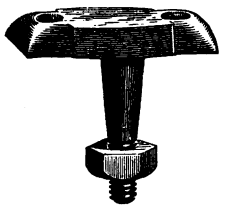
Clip King Bolt Yoke and Brace.

SMOOTH FINISH TAPER PATTERN.

Trade Mark.

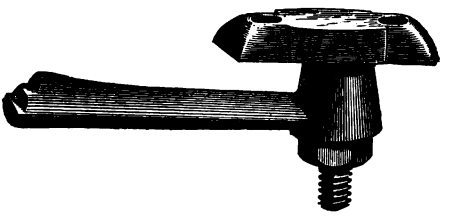
Forged from Best Norway Iron.

No. 228.



MILLED YOKE, WITHOUT BRACE.

No. 229.



YOKE, WITH BRACE.

Common Size, with 5-16 Inch Holes in Yoke.

1 inch between holes,	per dozen,	$4.00
1⅛ " " "	"	4.00
1¼ " " "	"	4.00
Milled Yokes without Brace,	"	2.50
" " " " Plain End,	"	2.50

Heavy Size, with 3-8 Inch Holes in Yoke.

1⅛ inch between holes,	per dozen,	$5.00
1¼ " " "	"	5.00
1⅜ " " "	"	5.00
1½ " " "	"	5.00
Milled Yoke, without Brace, Plain End,	"	2.75

Swaged Axle Pattern Yoke same list prices as above.

Put up in paper boxes of two dozen each.

The Yoke has forged and drilled ends to match our Smooth Finish Clip Yokes. The Bolt is milled tapering, so that as the nut is screwed up it tightens the Brace on the Bolt, and prevents rattle.

The eye on the Brace and the Bolt are milled to an accurate fit.

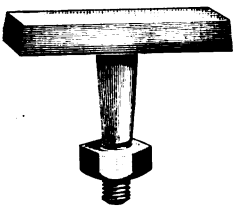
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Clip King Bolt Yoke and Brace.

PLAIN TAPER PATTERN.

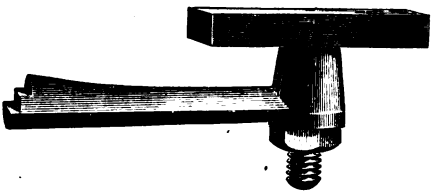
Trade Mark.

No. 230.



Milled Yoke, without Brace.

No. 231.



Yoke, with Brace.

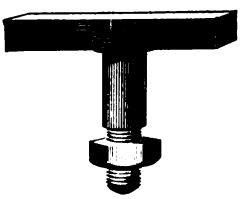
Light	Yoke,	with	Brace,	Yoke	$2\frac{5}{8}$	by	$\frac{11}{16}$	inch, per dozen,	$3.50
"	"	without	Brace,	"	$2\frac{5}{8}$	"	$\frac{11}{16}$	" "	2.50
Heavy	"	with	"	"	$2\frac{7}{8}$	"	$\frac{3}{4}$	" "	4.50
"	"	without	"	"	$2\frac{7}{8}$	"	$\frac{3}{4}$	" "	2.75

Put up in paper boxes of two dozen each.

The eye on the Brace and the Bolt are milled to an accurate fit.

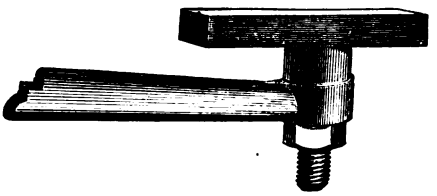
PLAIN STRAIGHT PATTERN.

No. 232.



Milled Yoke, without Brace.

No. 233.



Yoke, with Brace.

Milled	Yoke,	with	Brace, ... per dozen,	$3.50
"	"	without	Brace, ... "	2.50

Put up in paper boxes of two dozen each

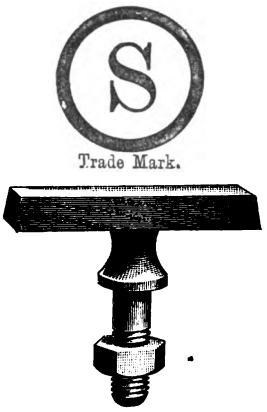
The eye on the Brace and the Bolt are milled to an accurate fit.

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CLIP KING BOLT YOKES.

No. 234.

PLAIN END COLLAR PATTERN.



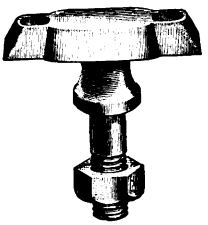
3-8 inch Bolt,.....per dozen, $2.50
7-16 " " ..... " 2.75

Put up in paper boxes of four dozen each.

The holes are not drilled, but left for the carriage maker to drill of such size and distance as required.

No. 235.

SMOOTH FINISH COLLAR PATTERN.



For $\frac{7}{8}$ inch Axle, $\frac{5}{16}$ inch Holes, $\frac{3}{8}$ inch Bolt,.....per dozen, $2.50
" 1 " " $\frac{5}{16}$ " " $\frac{3}{8}$ " " ..... " 2.50
" $1\frac{1}{8}$ " " $\frac{5}{16}$ " " $\frac{3}{8}$ " " ..... " 2.50
" $1\frac{1}{4}$ " " $\frac{5}{16}$ " " $\frac{3}{8}$ " " ..... " 2.50
" $1\frac{1}{4}$ " " $\frac{3}{8}$ " " $\frac{7}{16}$ " " ..... " 2.75
" $1\frac{3}{8}$ " " $\frac{3}{8}$ " " $\frac{7}{16}$ " " ..... " 2.75
" $1\frac{1}{2}$ " " $\frac{3}{8}$ " " $\frac{7}{16}$ " " ..... " 2.75

Put up in paper boxes of four dozen each.

The Yoke has forged and drilled Ends to match our Smooth Finish Clip Yokes.

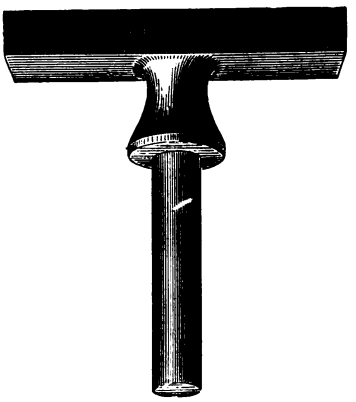
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CLIP KING BOLT YOKES.

No. 236.

PLAIN COLLAR PATTERN.

Trade Mark.



Light, $\frac{5}{8}$ inch Bolt,.....per dozen, $2.00
Heavy, $\frac{7}{16}$ " " ..... " " 2.50

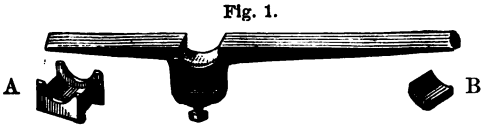
Put up in paper boxes of four dozen each.

These Yokes are forged from the best Norway Iron, with the bolt and collar of the same uniform and smooth finish that our Clip King Bolts have.

FIFTH WHEEL ANTI-RATTLER.

No. 240.

Fig. 1.



For Fifth Wheels made of $\frac{5}{8}$ inch iron,.....per dozen, $5.00
" " " " " $\frac{11}{16}$ " " ..... " " 5.00
" " " " " $\frac{3}{4}$ " " ..... " " 5.00

Put up in paper boxes of one dozen each.

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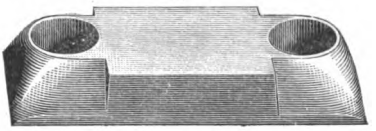
FORGED AXLE CLIP YOKE.

No. 245.

SMOOTH FINISH PATTERN.

Trade Mark.

Fig. 2.



Hole 1-4 Inch.

	Per Dozen.
$\frac{5}{8}$ inch between holes,	$0.40
$\frac{11}{16}$ " " "	.40
$\frac{3}{4}$ " " "	.40
$\frac{13}{16}$ " " "	.40
$\frac{7}{8}$ " " "	.40
$\frac{15}{16}$ " " "	.40
1 " " "	.40
$1\frac{1}{8}$ " " "	.40
$1\frac{1}{4}$ " " "	.40

Hole 5-16 Inch.

	Per Dozen.
$\frac{3}{4}$ inch between holes,	$0.40
$\frac{13}{16}$ " " "	.40
$\frac{7}{8}$ " " "	.40
$\frac{15}{16}$ " " "	.40
1 " " "	.40
$1\frac{1}{16}$ " " "	.40
$1\frac{1}{8}$ " " "	.40
$1\frac{3}{16}$ " " "	.40
$1\frac{1}{4}$ " " "	.40
$1\frac{3}{8}$ " " "	.50
$1\frac{1}{2}$ " " "	.50

Hole 3-8 Inch.

$1\frac{1}{8}$ inch between holes, ... per dozen,	$0.50
$1\frac{1}{4}$ " " " ..... " "	.50
$1\frac{3}{8}$ " " " ..... " "	.50
$1\frac{1}{2}$ " " " ..... " "	.50

Put up in boxes of four dozen each.

The above Yokes are so smoothly forged as to require no filing, and are sent to market with a smooth black finish. That part of the Yoke which projects beyond the axle bed is beveled *full up* to the top of the hole, leaving *no shoulder* around the shank of the clip to catch dust and mud, and making the best finish of any yoke in market.

The holes are *drilled* of the exact sizes and distances apart the labels and list call for.

They are made to correspond with the nuts on our axle clips, and, if used with them, will insure an accurate fit of the clip, both on the axle and in the Clip Yoke.

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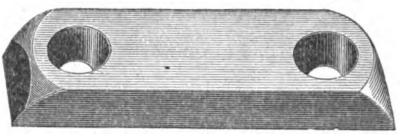
FORGED AXLE CLIP YOKES.

No. 247.

PLAIN PATTERN.

Trade Mark.

Fig. 3.



HOLE 1-4 INCH.

				Black.	Polished.
15/16	inch between holes,		per dozen,	$0.30	$0.40
3/4	" " "	"	"	.30	.40
7/8	" " "	"	"	.30	.40
1	" " "	"	"	.30	.40
1 1/8	" " "	"	"	.30	.40
1 1/4	" " "	"	"	.30	.40

HOLE 5-16 INCH.

3/4	inch between holes,		per dozen,	$0.30	$0.40
7/8	" " "	"	"	.30	.40
15/16	" " "	"	"	.30	.40
1	" " "	"	"	.30	.40
1 1/16	" " "	"	"	.30	.40
1 1/8	" " "	"	"	.30	.40
1 3/16	" " "	"	"	.30	.40
1 1/4	" " "	"	"	.30	.40
1 5/16	" " "	"	"	.30	.40
1 3/8	" " "	"	"	.40	.50
1 1/2	" " "	"	"	40	.50

HOLE 3-8 INCH.

1	inch between holes,		per dozen,	$0.40	$0.50
1 1/8	" " "	"	"	.40	.50
1 1/4	" " "	"	"	.40	.50
1 3/8	" " "	"	"	.40	.50
1 1/2	" " "	"	"	.40	.50

Put up in paper boxes of four dozen each.

The above Yokes are *drop forged*, with beveled ends, ready for use.

The holes are *drilled* of the exact sizes and distances apart the labels and list call for.

They are made to correspond with the nuts on our axle clips, and if used with them will insure an accurate fit of the clip, both on the axle and in the Clip Yoke.

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PATENT FORGED CLIP YOKES.

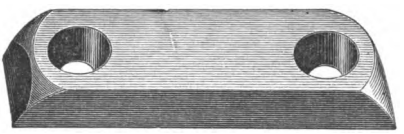
No. 248.

HAMMER BRAND.



Trade Mark.

Fig. 3.



HOLE $\frac{5}{16}$ INCH.

$\frac{3}{4}$	inch	between	Holes.	$1\frac{1}{8}$	inch	between	Holes.
$\frac{13}{16}$	"	"	"	$1\frac{3}{16}$	"	"	"
$\frac{7}{8}$	"	"	"	$1\frac{1}{4}$	"	"	"
$\frac{15}{16}$	"	"	"	$1\frac{5}{16}$	"	"	"
1	"	"	"	$1\frac{3}{8}$	"	"	"
$1\frac{1}{16}$	"	"	"	$1\frac{1}{2}$	"	"	"

HOLE $\frac{3}{8}$ INCH.

1	inch	between	Holes.	$1\frac{1}{2}$	inch	between	Holes.
$1\frac{1}{8}$	"	"	"	$1\frac{5}{8}$	"	"	"
$1\frac{1}{4}$	"	"	"	$1\frac{3}{4}$	"	"	"
$1\frac{3}{8}$	"	"	"	2	"	"	"

HOLE $\frac{7}{16}$ INCH.

$1\frac{1}{8}$	inch	between	Holes.	$1\frac{5}{8}$	inch	between	Holes.
$1\frac{1}{4}$	"	"	"	$1\frac{3}{4}$	"	"	"
$1\frac{3}{8}$	"	"	"	2	"	"	"
$1\frac{1}{2}$	"	"	"	$2\frac{1}{4}$	"	"	"

LIST PRICES.

In 10-pound paper boxes,..... $6\frac{1}{2}$ cents per lb.
In bulk, 100 pounds of ONE SIZE in a keg,..... 6 " " "

Made in our Patented Machines, which enable us to offer a good Forged Yoke at a low price.

COLD MADE YOKES.

Made to order of any size, with *drilled holes*,.....15 cents per lb.

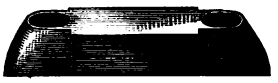
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SLEIGH CLIP YOKES.

No. 249.

SMOOTH FINISH PATTERN.

Trade Mark.



HOLE $\frac{3}{16}$ INCH.

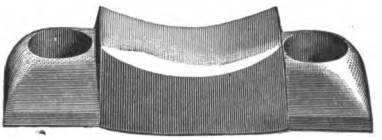
$\frac{5}{8}$	inch between Holes,	.....	per dozen,		$0.40
$\frac{11}{16}$	" " "	.....	" "		.40
$\frac{3}{4}$	" " "	.....	" "		.40
$\frac{7}{8}$	" " "	.....	" "		.40
1	" " "	.....	" "		.40

Packed in paper boxes of four dozen each.

FORGED AXLE CLIP YOKES.

No. 246.

SWAGED AXLE PATTERN.



HOLE $\frac{5}{16}$ INCH.

1	inch between Holes,	.....	per dozen,		$0.50
$1\frac{1}{8}$	" " "	.....	" "		.50
$1\frac{1}{4}$	" " "	.....	" "		.50

HOLE $\frac{3}{8}$ INCH.

$1\frac{1}{8}$	inch between Holes,	.....	per dozen,		$0.60
$1\frac{1}{4}$	" " "	.....	" "		.60

Packed in paper boxes of four dozen each.

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SLEIGH SHAFT COUPLINGS.

No. 250.

ROUND SHANK, ALBANY PATTERN.

Trade Mark.

Fig. 21.

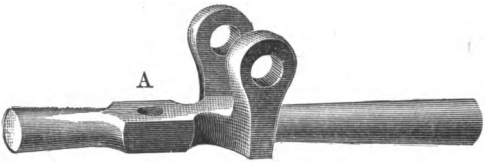


Fig. 2.



ROUND HOLE BOLT.

Fig. 17.



	BOLT.	BLACK.
1 inch, Eye 1 inch by $\frac{13}{16}$ inch,	$\frac{3}{8}$ inch,.....per dozen pairs,	$11.25
1 " Shackle Part, no Eyes or Bolts,.....	" " "	6.50

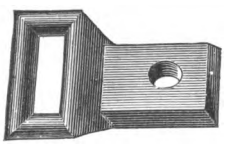
Put up without being bolted together, in paper boxes of six sets each.

The above Coupling has Round Shanks, with a flat spot, A, for a bearing, or with *both* ends *round when so ordered.*

SAFETY LOOPS.

No. 253.

Forged from Best Norway Iron.



Per Dozen, $1.00

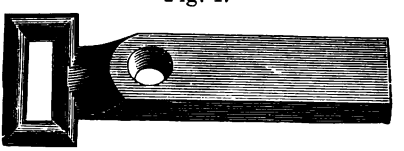
Put up in boxes of four dozen each.

LOOP YOKES.

No. 254.

Forged from Best Norway Iron.

Fig. 1.



Per Dozen, $1.25

Put up in boxes of four dozen each.

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SMITH'S INTERCHANGEABLE

SLEIGH SHAFT COUPLINGS.

No. 251.

PORTLAND PATTERN, WITH UNFINISHED ENDS.

Trade Mark.

Fig. 16.

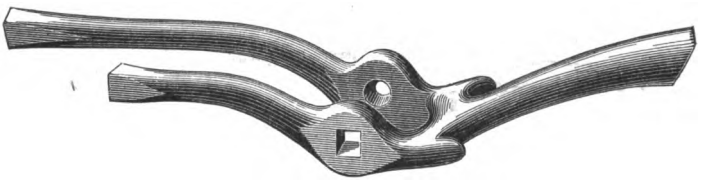


Fig. 3.



Fig. 17.



One inch,.....per dozen pairs, $15.50
" " without Shaft Eyes, for Wood Ends, " " " 12.00

Made with Space suitable for Wood Shaft Ends.

Put up without being bolted together, in paper boxes of six sets each.

The above Sleigh Couplings are forged from the best Norway Iron, and the long arm is left of suitable length to form the short brace without weld. When ordered for *Wood Shaft End*, will be furnished with Bolt square in the Ear, without Shaft Eye.

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SLEIGH SHAFT COUPLINGS.

No. 252.

PORTLAND PATTERN, WITH FINISHED ENDS.

Trade Mark.

Fig. 19.

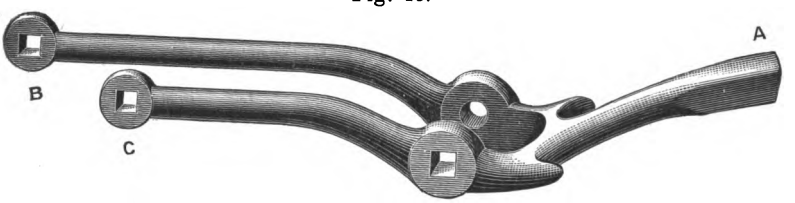


Fig. 20.



Fig. 3.



Fig. 17.



One inch,.....	per dozen pairs,			$21.00
Shackle Part, with Back Brace, Figs. 19 and 20 (no Eyes or Bolts),.....	"	"	"	16.00
Shackle Part, with Brace and Bolt (no Eyes),	"	"	"	18.00
Back Brace (Fig. 20),.....	"	"	"	4.00

Packed in paper boxes of six sets each.

The Shackle Part (Fig. 19), and Back Brace (Fig. 20), are made of the best Norway Iron, of lengths sufficient to complete the Braces with one weld.

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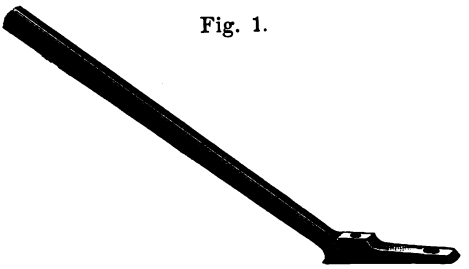
SMITH'S SLEIGH BRACES.

Trade Mark.

No. 258.

SLEIGH BRACE HEAD.

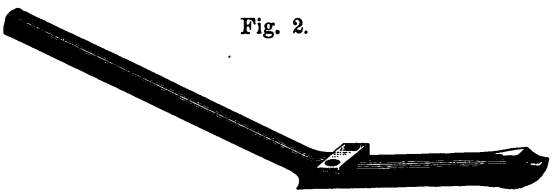
Fig. 1.



No. 259.

SLEIGH BRACE KNEE.

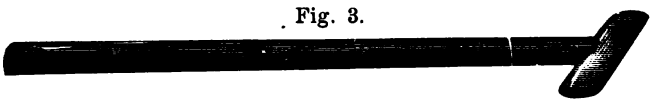
Fig. 2.



SLEIGH BRACE FOOT.

No. 260.

Fig. 3.



One Set consists of Six of each, Figs. 1, 2, and 3.

	Per Set.
For $\frac{9}{16}$ inch Sleigh Brace, complete, ready for Welding	$1.85
" $\frac{5}{8}$ " " " " " " " "	2.05
" $\frac{3}{4}$ " " " " " " " "	2.30

Packed in paper boxes of two sets each.

	Fig. 1. Head.	Fig. 2. Knee.	Fig. 3. Foot.
For $\frac{9}{16}$ inch Sleigh Brace, per dozen,	$1.20	$1.35	$1.15
" $\frac{5}{8}$ " " " " " "	1.35	1.50	1.25
" $\frac{3}{4}$ " " " " " "	1.50	1.65	1.45

Packed in paper boxes of two dozen each.

These Irons are first-class forgings, made of Norway Iron, of such lengths as to make, when welded, a brace complete.

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POINT CENTER SLEIGH CLIPS.

Trade Mark.

No. 270.



Made of the Best Norway Iron.

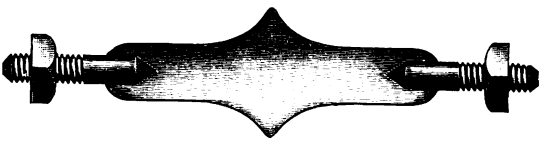
SHANK $\frac{3}{16}$ INCH.

Be sure to state whether for Flat Part or Number.

Flat part,	$2\frac{1}{8}$	inches long,	No.	$00\frac{1}{4}$,	.....	per dozen,		$0.80
" "	$2\frac{1}{2}$	" "	"	0,	.....	" "		.80
" "	$2\frac{3}{4}$	" "	"	$0\frac{1}{2}$,	.....	" "		.80
" "	3	" "	"	1,	.....	" "		.80

Put up in paper boxes of four dozen each.

No. 271.



Made of the Best Norway Iron.

SHANK $\frac{1}{4}$ INCH.

Be sure to state whether for Flat Part or Number.

Flat part,	2	inches long,	No.	00,	.....	per dozen,		$0.80
" "	$2\frac{1}{4}$	" "	"	$00\frac{1}{2}$,	.....	" "		.80
" "	$2\frac{1}{2}$	" "	"	0,	.....	" "		.80
" "	$2\frac{3}{4}$	" "	"	$0\frac{1}{2}$,	.....	" "		.80
" "	3	" "	"	1,	.....	" "		.80
" "	$3\frac{1}{4}$	" "	"	$1\frac{1}{2}$,	.....	" "		.80
" "	$3\frac{1}{2}$	" "	"	2,	.....	" "		.80

Put up in paper boxes of four dozen each.

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SMITH'S IMPROVED AXLE CLIPS.

No. 272.

PLAIN PATTERN.





Be SURE *to state whether for* FLAT PART *or* NUMBER.

FOR LIGHT BUGGIES. FLAT PART, $\frac{5}{8}$ INCH WIDE. SHANK, $\frac{1}{4}$ INCH.

Flat part, 2	inches long,	No. 00,	.....	per dozen,	$0.80
" " $2\frac{1}{4}$	" " "	$00\frac{1}{2}$,	.....	" "	.80
" " $2\frac{1}{2}$	" " "	0,	.....	" "	.80
" " $2\frac{3}{4}$	" " "	$0\frac{1}{2}$,	.....	" "	.80
" " 3	" " "	1,	.....	" "	.80
" " $3\frac{1}{2}$	" " "	2,	.....	" "	.80
" " 4	" " "	3,	.....	" "	.85
" " $4\frac{1}{2}$	" " "	4,	.....	" "	1.00

Put up in paper boxes of four dozen each.

For drilled Clip Yokes, to fit these Clips, see pages 78 and 79.

No. 273.

PLAIN PATTERN.



FOR LIGHT BUGGIES. FLAT PART, $\frac{3}{4}$ INCH WIDE. SHANK, $\frac{5}{16}$ INCH.

Flat part, 2	inches long,	No. 00,	.....	per dozen,	$0.80
" " $2\frac{1}{2}$	" " "	0,	.....	" "	.80
" " 3	" " "	1,	.....	" "	.80
" " $3\frac{1}{2}$	" " "	2,	.....	" "	.80
" " 4	" " "	3,	.....	" "	.85
" " $4\frac{1}{2}$	" " "	4,	.....	" "	1.00

Put up in paper boxes of four dozen each.

For drilled Clip Yokes, to fit these Clips, see pages 78, 79, 80, and 81.

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SMITH'S IMPROVED AXLE CLIPS.

No. 274.

PLAIN PATTERN.

Trade Mark.



Made from the Best Norway Rods.



Be SURE *to state whether for* FLAT PART *or* NUMBER.

FLAT PART, $\frac{7}{8}$ INCH WIDE. SHANK, $\frac{5}{16}$ INCH.

Flat part,	2	inches long,	No.	00,	.....	per	dozen,	$0.80
"	"	2¼	"	"	"	00½,	.....	"	"	.80
"	"	2½	"	"	"	0,	.....	"	"	.80
"	"	2¾	"	"	"	0½,	.....	"	"	.80
"	"	3	"	"	"	1,	.....	"	"	.80
"	"	3¼	"	"	"	1½,	.....	"	"	.80
"	"	3½	"	"	"	2,	.....	"	"	.80
"	"	3¾	"	"	"	2½,	.....	"	"	.80
"	"	4	"	"	"	3,	.....	"	"	.85
"	"	4¼	"	"	"	3½,	.....	"	"	.85
"	"	4½	"	"	"	4,	.....	"	"	1.00
"	"	4¾	"	"	"	4½,	.....	"	"	1.00
"	"	5	"	"	"	5,	.....	"	"	1.15
"	"	5½	"	"	"	5½,	.....	"	"	1.20
"	"	6	"	"	"	6,	.....	"	"	1.35

Put up in paper boxes of four dozen each.

For drilled Clip Yokes, to fit these Clips, see pages 78, 79, 80, and 81.

The Smith's Improved Axle Clips are of the pattern *first introduced by us* many years ago, known as "Smith's New Style Axle Clips," the advantages of which are now well known. These Axle Clips are made by a process which produces a smooth clip, of clean, well-defined points, of the very best workmanship in all respects. The shank is always of a full, uniform round, clear up to the flat part, so that it will *fill* and *fit* the holes in the clip yoke. They have a clean, well cut, strong thread, with nuts that *fit*, and will not strip.

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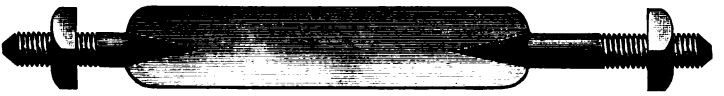
SMITH'S IMPROVED AXLE CLIPS.

No. 275.

ONE LONG SHANK PATTERN.



Trade Mark.



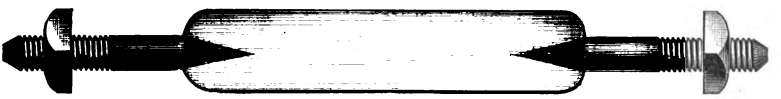
FLAT PART, $\frac{7}{8}$ INCH WIDE. SHANK, $\frac{5}{16}$ INCH DIAMETER.

LONG END, 2 INCHES. SHORT END, $1\frac{1}{4}$ INCHES.

Flat part, $2\frac{1}{2}$ inches long,					No.	0,	per dozen,	$0.90
"	"	3	"	"	"	1,	" "	.90
"	"	$3\frac{1}{2}$	"	"	"	2,	" "	.90
"	"	4	"	"	"	3,	" "	1.00
"	"	$4\frac{1}{2}$	"	"	"	4,	" "	1.10

No. 276.

TWO LONG SHANK PATTERN.



FLAT PART, $\frac{7}{8}$ INCH. SHANK, $\frac{5}{16}$ INCH DIAMETER.

BOTH ENDS, $2\frac{1}{4}$ INCHES LONG.

Flat part, $2\frac{1}{2}$ inches long,					No.	0,	per dozen,	$1.00
"	"	3	"	"	"	1,	" "	1.00
"	"	$3\frac{1}{2}$	"	"	"	2,	" "	1.00
"	"	4	"	"	"	3,	" "	1.05
"	"	$4\frac{1}{2}$	"	"	"	4,	" "	1.20

Put up in paper boxes of four dozen each.

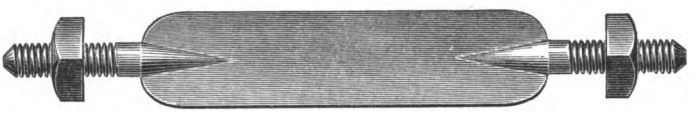
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SMITH'S IMPROVED AXLE CLIPS.

No. 277.

PLAIN PATTERN.

Trade Mark.



Be SURE *to state whether for* FLAT PART *or* NUMBER.

FLAT PART, 1 INCH WIDE. SHANK, $\frac{5}{16}$ INCH.

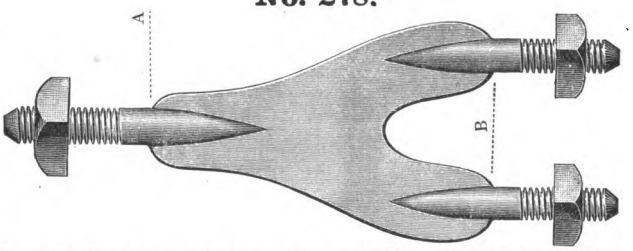
Flat part,	2½	inches long,	No.	0,	.....	per dozen,	$0.80
"	"	3	"	"	"	1,	.....	"	"	.80
"	"	3½	"	"	"	2,	.....	"	"	.80
"	"	4	"	"	"	3,	.....	"	"	.85
"	"	4½	"	"	"	4,	.....	"	"	1.00
"	"	5	"	"	"	5,	.....	"	"	1.15
"	"	5½	"	"	"	5½,	.....	"	"	1.20
"	"	6	"	"	"	6,	.....	"	"	1.35

Put up in paper boxes of four dozen each.

For drilled Clip Yokes to fit these Clips, see pages 78, 79, 80, and 81.

PRONG AXLE CLIPS.

No. 278.



SINGLE SHANK, $\frac{3}{8}$ INCH. DOUBLE END SHANKS, $\frac{5}{16}$ INCH.

Flat Part from A to B, 3½ inches.

No. 2,..... per dozen, **$2.00**

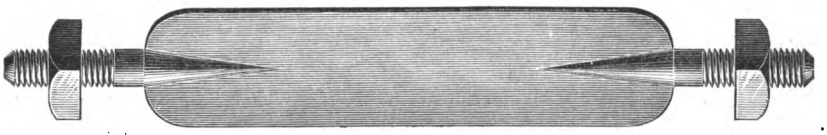
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SMITH'S IMPROVED AXLE CLIPS.

No. 279.

FOR HEAVY WAGONS AND ROCKAWAYS.

Trade Mark.



Be SURE *to state whether for* FLAT PART *or* NUMBER.

FLAT PART, 1¼ INCHES WIDE. SHANK, ⅜ INCH.

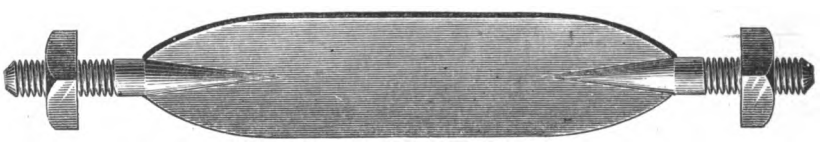
Flat part,	3½	inches	long,	No.	00,	per	dozen,	$1 00
"	"	4	"	"	0,	"	"	1.00
"	"	4½	"	"	1,	"	"	1.00
"	"	5	"	"	2,	"	"	1.15
"	"	5½	"	"	3,	"	"	1.25
"	"	6	"	"	4,	"	"	1.40
"	"	6½	"	"	5,	"	"	1.75
"	"	7¼	"	"	6,	"	"	2.25

Put up in paper boxes of four dozen each.

"ANVIL" HEAVY AXLE CLIPS.

No. 280.

FOR HEAVY WAGONS AND ROCKAWAYS.



FLAT PART, 1¼ INCHES WIDE. SHANK, ⅜ INCH.

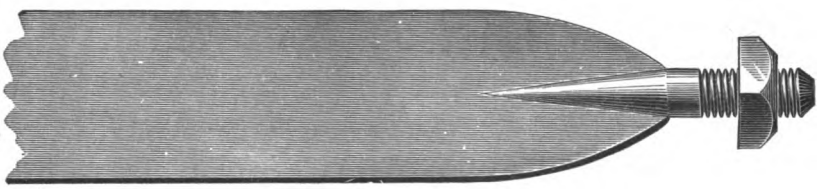
Flat part,	3½	inches	long,	No.	00,	per	dozen,	$1.00
"	"	4	"	"	0,	"	"	1.00
"	"	4½	"	"	1,	"	"	1.00
"	"	5	"	"	2,	"	"	1.15
"	"	5½	"	"	3,	"	"	1.25
"	"	6	"	"	4,	"	"	1.40
"	"	6½	"	"	5,	"	"	1.75
"	"	7¼	"	"	6,	"	"	2.25

Put up in paper boxes of four dozen each.

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SMITH'S
EXTRA HEAVY AXLE CLIPS.
No. 281.
FOR EXPRESS AND TRUCK WAGONS.

Trade Mark.



Be SURE *to state whether for* FLAT PART *or* NUMBER.

SHANK $\frac{7}{16}$ INCH DIAMETER, AND $1\frac{3}{4}$ INCHES LONG.

Flat part,	$4\frac{1}{2}$	inches long,	$1\frac{5}{8}$	inches wide,	No.	$00\frac{1}{2}$,	per dozen,	$2.00
"	"	5	"	"	$1\frac{5}{8}$	"	"	"	0,	"	"	2.00
"	"	$5\frac{1}{2}$	"	"	$1\frac{5}{8}$	"	"	"	$0\frac{1}{2}$,	"	"	2.15
"	"	6	"	"	$1\frac{5}{8}$	"	"	"	1,	"	"	2.25
"	"	$6\frac{1}{2}$	"	"	$1\frac{5}{8}$	"	"	"	$1\frac{1}{2}$,	"	"	2.40
"	"	7	"	"	$1\frac{3}{4}$	"	"	"	2,	"	"	2.50
"	"	$7\frac{1}{2}$	"	"	$1\frac{3}{4}$	"	"	"	$2\frac{1}{2}$,	"	"	2.70
"	"	8	"	"	$1\frac{3}{4}$	"	"	"	3,	"	"	2.90
"	"	$8\frac{1}{2}$	"	"	$1\frac{3}{4}$	"	"	"	$3\frac{1}{2}$,	"	"	3.10
"	"	9	"	"	$1\frac{3}{4}$	"	"	"	4,	"	"	3.25
"	"	$9\frac{1}{2}$	"	"	$1\frac{3}{4}$	"	"	"	$4\frac{1}{2}$,	"	"	3.50
"	"	10	"	"	$1\frac{3}{4}$	"	"	"	5	"	"	3.75

Put up in paper boxes of two dozen each.

SMITH'S IMPROVED AXLE CLIPS.
No. 282.
ONE AND TWO LONG SHANKS.



FLAT PART, $1\frac{1}{8}$ INCH. SHANK, $\frac{3}{8}$ INCH DIAMETER.

							Per Dozen.
Flat part,	$4\frac{1}{2}$	inches long,	No.	1,	One Long Shank,	$2\frac{1}{4}$ inch, . .	$1.25
"	"	$4\frac{1}{2}$	"	"	1, Two Long Shanks,	2 " . . .	1.35

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SMITH'S IMPROVED AXLE CLIPS.

No. 283.

BEVELED EDGE PATTERN.



Trade Mark.



Section.



Be SURE *to state whether for* FLAT PART *or* NUMBER.

Made from the Best Norway Rods.

FLAT PART, $\frac{7}{8}$ INCH WIDE. SHANK, $\frac{5}{16}$ INCH.

Flat part,	2	inches	long,	No.	00,	per	dozen,	$0.85
"	"	2¼	"	"	"	00½,	"	"	.85
"	"	2½	"	"	"	0,	"	"	.85
"	"	2¾	"	"	"	0½,	"	"	.85
"	"	3	"	"	"	1,	"	"	.85
"	"	3¼	"	"	"	1½,	"	"	.85
"	"	3½	"	"	"	2,	"	"	.85
"	"	3¾	"	"	"	2½,	"	"	.85
"	"	4	"	"	"	3,	"	"	.90
"	"	4¼	"	"	"	3½,	"	"	.90
"	"	4½	"	"	"	4,	"	"	1.05
"	"	4¾	"	"	"	4½,	"	"	1.05
"	"	5	"	"	"	5,	"	"	1.20
"	"	5½	"	"	"	5½,	"	"	1.25
"	"	6	"	"	"	6,	"	"	1.40

Put up in paper boxes of four dozen each.

For Clip Yokes to fit these Clips, see pages 78, 79, 80, and 81.

The above Clips are forged of the *best* Norway Iron, and are in all respects of the best workmanship.

They have a clean, uniform bevel forged on their edges, and make a superior finish.

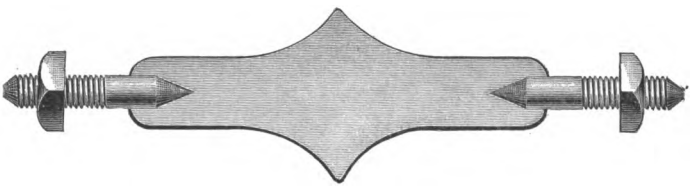
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SMITH'S IMPROVED AXLE CLIPS.

No. 284.

POINT CENTER PATTERN.

Trade Mark.



Made from the Best Norway Rods.

Be SURE *to state whether for* FLAT PART *or* NUMBER.

SHANK, $\frac{5}{16}$ INCH.

Flat part,	2	inches	long,	No.	00,	per	dozen,		$0.80
" "	$2\frac{1}{4}$	"	"	"	$00\frac{1}{2}$,	"	"		.80
" "	$2\frac{1}{2}$	"	"	"	0,	"	"		.80
" "	$2\frac{3}{4}$	"	"	"	$0\frac{1}{2}$,	"	"		.80
" "	3	"	"	"	1,	"	"		.80
" "	$3\frac{1}{4}$	"	"	"	$1\frac{1}{2}$,	"	"		.80
" "	$3\frac{1}{2}$	"	"	"	2,	"	"		.80
" "	$3\frac{3}{4}$	"	"	"	$2\frac{1}{2}$,	"	"		.80
" "	4	"	"	"	3,	"	"		.85
" "	$4\frac{1}{4}$	"	"	"	$3\frac{1}{2}$,	"	"		.85
" "	$4\frac{1}{2}$	"	"	"	4,	"	"		1.00
" "	$4\frac{3}{4}$	"	"	"	$4\frac{1}{2}$,	"	"		1.00
" "	5	"	"	"	5,	"	"		1.15
" "	$5\frac{1}{2}$	"	"	"	$5\frac{1}{2}$,	"	"		1.20
" "	6	"	"	"	6,	"	"		1.35

Packed in paper boxes of four dozen each.

For drilled Clip Yokes to fit these Clips, see pages 78, 79, 80, and 81.

Makes a good finish, and is a light, very strong clip, with wide bearing center.

We offer them as the best wide center clip known to the trade.

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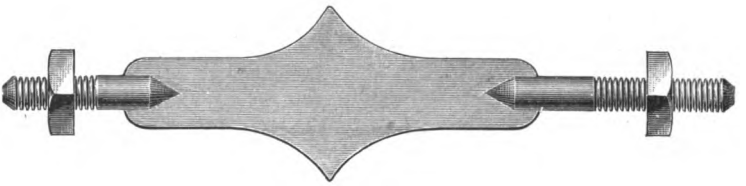
SMITH'S IMPROVED AXLE CLIPS.

No. 285.

ONE LONG SHANK POINT CENTER PATTERN.



Trade Mark.



LONG END 2 INCHES. SHORT END 1¼ INCHES.

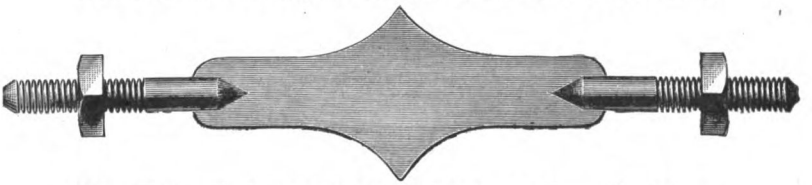
SHANK 5/16 INCH DIAMETER.

Flat part,	2½	inches long,	No.	0,	per dozen,		$0.90
"	"	3	"	"	"	1,	"	"	.90
"	"	3½	"	"	"	2,	"	"	.90
"	"	4	"	"	"	3,	"	"	1.00
"	"	4½	"	"	"	4,	"	"	1.15
"	"	5	"	"	"	5,	"	"	1.35

Put up in paper boxes of four dozen each.

No. 286.

TWO LONG SHANK POINT CENTER PATTERN.



BOTH ENDS 2¼ INCHES LONG. SHANK 5/16 INCH DIAMETER.

Flat part,	2½	inches long,	No.	0,	per dozen,		$1.00
"	"	3	"	"	"	1,	"	"	1.00
"	"	3½	"	"	"	2,	"	"	1.00
"	"	4	"	"	"	3,	"	"	1.05
"	"	4½	"	"	"	4,	"	"	1.20
"	"	5	"	"	"	5,	"	"	1.50

Put up in paper boxes of four dozen each.

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"ANVIL" AXLE CLIPS.

No. 287.

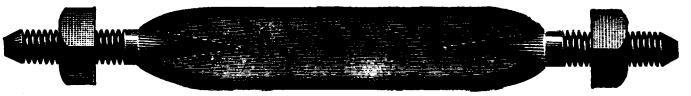
ROUND EDGE PATTERN.



Trade Mark.



Section.



Made of Norway Iron.

Be SURE *to state whether for* FLAT PART *or* NUMBER.

FLAT PART $\frac{7}{8}$ INCH WIDE. SHANK $\frac{5}{16}$ INCH.

Flat part,	2	inches	long,	No.	00,	per	dozen,	$0.85
"	"	2¼	"	"	"	00½,	"	"	.85
"	"	2½	"	"	"	0,	"	"	.85
"	"	2¾	"	"	"	0½,	"	"	.85
"	"	3	"	"	"	1,	"	"	.85
"	"	3¼	"	"	"	1½,	"	"	.85
"	"	3½	"	"	"	2,	"	"	.85
"	"	3¾	"	"	"	2½,	"	"	.85
"	"	4	"	"	"	3,	"	"	.90
"	"	4¼	"	"	"	3½,	"	"	.90
"	"	4½	"	"	"	4,	"	"	1.05
"	"	4¾	"	"	"	4½,	"	"	1.05
"	"	5	"	"	"	5,	"	"	1.20
"	"	5½	"	"	"	5½,	"	"	1.25
"	"	6	"	"	"	6,	"	"	1.40
"	"	6½	"	"	"	6½,	"	"	1.55
"	"	7	"	"	"	7,	"	"	1.70
"	"	7½	"	"	"	7½,	"	"	1.85

Packed in paper boxes of four dozen each.

For Clip Yokes to fit these Clips, see pages 78, 79, 80, and 81.

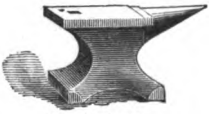
The edges of these Clips are rounded down to an edge in dies, and they make an excellent finish.

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"Anvil" Round Edge Axle Clips.

No. 288.

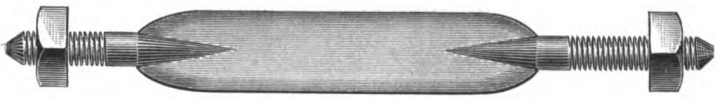
ONE LONG SHANK PATTERN.



Trade Mark.



Section.



Made of Norway Iron.

FLAT PART $\frac{7}{8}$ INCH WIDE. SHANK $\frac{5}{16}$ INCH DIAMETER.

LONG END $2\frac{1}{4}$ INCHES. SHORT END $1\frac{1}{4}$ INCHES.

Flat part,	$2\frac{1}{2}$	inches long,	No.	0,		per dozen,		$0.95
"	"	3	"	"	1,	"	"	.95
"	"	$3\frac{1}{2}$	"	"	2,	"	"	.95
"	"	4	"	"	3,	"	"	1.05
"	"	$4\frac{1}{2}$	"	"	4,	"	"	1.15

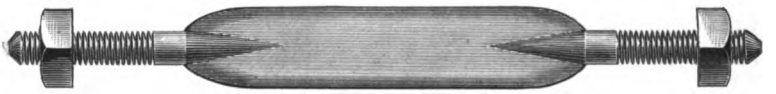
Put up in paper boxes of four dozen each.

No. 289.

TWO LONG SHANK PATTERN.



Section.



Made of Norway Iron.

FLAT PART $\frac{7}{8}$ INCH. SHANK $\frac{5}{16}$ INCH DIAMETER.

BOTH ENDS $2\frac{1}{4}$ INCHES LONG.

Flat part,	$2\frac{1}{2}$	inches long,	No.	0,		per dozen,		$1.05
"	"	3	"	"	1,	"	"	1.05
"	"	$3\frac{1}{2}$	"	"	2,	"	"	1.05
"	"	4	"	"	3,	"	"	1.15
"	"	$4\frac{1}{2}$	"	"	4,	"	"	1.25

Put up in paper boxes of four dozen each.

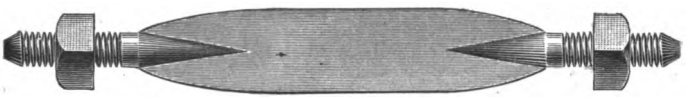
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"ANVIL" AXLE CLIPS.

No. 290.



Trade Mark.



Made of Norway Iron.

Be SURE *to state whether for* FLAT PART *or* NUMBER.

FLAT PART $\frac{7}{8}$ INCH WIDE. SHANK $\frac{5}{16}$ INCH.

Flat part,	2	inches long,	No.	00,	.....	per dozen,		$0.80
"	"	2¼	"	"	00½,	.....	"	.80
"	"	2½	"	"	0,	.....	"	.80
"	"	2¾	"	"	0½,	.....	"	.80
"	"	3	"	"	1,	.....	"	.80
"	"	3¼	"	"	1½,	.....	"	.80
"	"	3½	"	"	2,	.....	"	.80
"	"	3¾	"	"	2½,	.....	"	.80
"	"	4	"	"	3	.....	"	.85
"	"	4¼	"	"	3½,	.....	"	.85
"	"	4½	"	"	4,	.....	"	1.00
"	"	4¾	"	"	4½,	.....	"	1.00
"	"	5	"	"	5,	.....	"	1.15
"	"	5½	"	"	5½,	.....	"	1.20
"	"	6	"	"	6,	.....	"	1.35

Packed in paper boxes of four dozen each.

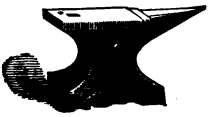
For drilled Clip Yokes to fit these Clips, see pages 78, 79, 80, and 81.

We offer the "Anvil Clip" as the best in market at any less price than our "Smith's Improved Axle Clip," which *we believe* to be the *best Clip made.*

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"ANVIL" AXLE CLIPS.

No. 291.



Trade Mark.

ONE LONG SHANK PATTERN.



FLAT PART $\frac{7}{8}$ INCH WIDE. SHANK $\frac{5}{16}$ INCH DIAMETER.

LONG END $2\frac{1}{4}$ INCHES. SHORT END $1\frac{1}{4}$ INCHES.

Flat part,	$2\frac{1}{2}$	inches long,	No.	0,	per dozen,		$0.90
"	"	3	"	"	1,	"	"	.90
"	"	$3\frac{1}{2}$	"	"	2,	"	"	.90
"	"	4	"	"	3,	"	"	1.00
"	"	$4\frac{1}{2}$	"	"	4,	"	"	1.10

Put up in paper boxes of four dozen each.

No. 292.

TWO LONG SHANK PATTERN.



FLAT PART $\frac{7}{8}$ INCH. SHANK $\frac{5}{16}$ INCH DIAMETER.

BOTH ENDS $2\frac{1}{4}$ INCHES LONG.

Flat part,	$2\frac{1}{2}$	inches long,	No.	0,	per dozen,		$1.00
"	"	3	"	"	1,	"	"	1.00
"	"	$3\frac{1}{2}$	"	"	2,	"	"	1.00
"	"	4	"	"	3,	"	"	1.10
"	"	$4\frac{1}{2}$	"	"	4,	"	"	1.20

Put up in paper boxes of four dozen each.

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"HAMMER" AXLE CLIPS.

No. 293.



Trade Mark.



Made of Norway Iron.

Be SURE *to state whether for* FLAT PART *or* NUMBER.

FLAT PART $\frac{7}{8}$ INCH. SHANK, $\frac{5}{16}$ INCH.

Flat part, 2	inches long,	No. 00,	.....	per dozen,	$0.70
" " $2\frac{1}{4}$	" " "	$00\frac{1}{2}$,	.....	" "	.70
" " $2\frac{1}{2}$	" " "	0,	.....	" "	.70
" " $2\frac{3}{4}$	" " "	$0\frac{1}{2}$,	.....	" "	.70
" " 3	" " "	1,	.....	" "	.70
" " $3\frac{1}{4}$	" " "	$1\frac{1}{2}$,	.....	" "	.70
" " $3\frac{1}{2}$	" " "	2,	.....	" "	.75
" " $3\frac{3}{4}$	" " "	$2\frac{1}{2}$,	.....	" "	.75
" " 4	" " "	3,	.....	" "	.80
" " $4\frac{1}{4}$	" " "	$3\frac{1}{2}$,	.....	" "	.80
" " $4\frac{1}{2}$	" " "	4,	.....	" "	.95
" " $4\frac{3}{4}$	" " "	$4\frac{1}{2}$,	.....	" "	.95
" " 5	" " "	5,	.....	" "	1.10
" " $5\frac{1}{2}$	" " "	$5\frac{1}{2}$,	.....	" "	1.10
" " 6	" " "	6,	.....	" "	1.25
" " $6\frac{1}{2}$	" " "	$6\frac{1}{2}$,	.....	" "	1.40

Packed in paper boxes of four dozen each.

For Clip Yokes to fit these Clips, see pages 78, 79, 80, and 81.

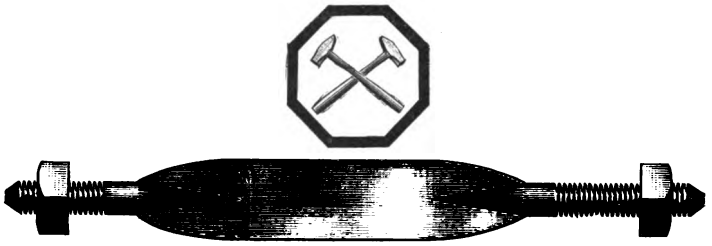
These Clips will be found a good Clip for the price at which they are offered.

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"HAMMER" AXLE CLIPS.

No. 294.

ONE LONG SHANK PATTERN.



Made of Norway Iron.

FLAT PART $\frac{7}{8}$ INCH WIDE. SHANK $\frac{5}{16}$ INCH DIAMETER.
LONG END $2\frac{1}{4}$ INCHES. SHORT END $1\frac{1}{4}$ INCHES.

Flat part,	$2\frac{1}{4}$	inches long,	No.	$00\frac{1}{2}$,	.....	per dozen,		$0.80
"	"	$2\frac{1}{2}$	"	"	0, ...	"	"	.80
"	"	3	"	"	1, ...	"	"	.80
"	"	$3\frac{1}{2}$	"	"	2, ...	"	"	.90
"	"	4	"	"	3, ...	"	"	1.00
"	"	$4\frac{1}{2}$	"	"	4, ...	"	"	1.10
"	"	$4\frac{3}{4}$	"	"	$4\frac{1}{2}$, ...	"	"	1.10
"	"	5	"	"	5, ...	"	"	1.25
"	"	$5\frac{1}{2}$	"	"	$5\frac{1}{2}$, ...	"	"	1.35
"	"	6	"	"	6, ...	"	"	1.50

Put up in paper boxes of four dozen each.

No. 295.

TWO LONG SHANK PATTERN.



Made of Norway Iron.

FLAT PART $\frac{7}{8}$ INCH WIDE. SHANK $\frac{5}{16}$ INCH DIAMETER.
BOTH ENDS $2\frac{1}{4}$ INCHES LONG.

Flat part,	$2\frac{1}{4}$	inches long,	No.	$00\frac{1}{2}$,	.....	per dozen,		$0.90
"	"	$2\frac{1}{2}$	"	"	0, ...	"	"	.95
"	"	3	"	"	1, ...	"	"	1.00
"	"	$3\frac{1}{2}$	"	"	2, ...	"	"	1.10
"	"	4	"	"	3, ...	"	"	1.20
"	"	$4\frac{1}{2}$	"	"	4, ...	"	"	1.30
"	"	$4\frac{3}{4}$	"	"	$4\frac{1}{2}$, ...	"	"	1.30
"	"	5	"	"	5, ...	"	"	1.40
"	"	$5\frac{1}{2}$	"	"	$5\frac{1}{2}$, ...	"	"	1.45
"	"	6	"	"	6, ...	"	"	1.60

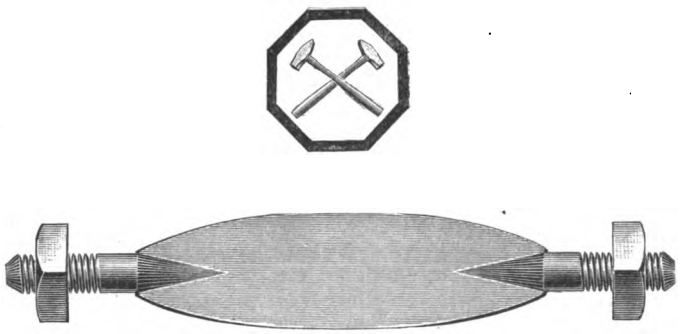
Put up in paper boxes of four dozen each.

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"HAMMER" HEAVY AXLE CLIPS.

No. 296.

FOR HEAVY WAGONS.



Made of Norway Iron.

Be SURE *to state whether for* FLAT PART *or* NUMBER.

FLAT PART 1¼ INCHES WIDE. SHANK, ⅜ INCH.

Flat part,	3½	inches long,	1¼	inches wide,	No.	00,	per dozen,	$1.00
"	"	4	"	"	1¼	"	"	"	0,	"	"	1.00
"	"	4½	"	"	1¼	"	"	"	1,	"	"	1.15
"	"	5	"	"	1¼	"	"	"	2,	"	"	1.30
"	"	5½	"	"	1¼	"	"	"	3,	"	"	1.45
"	"	6	"	"	1¼	"	"	"	4,	"	"	1.60
"	"	6½	"	"	1¼	"	"	"	5,	"	"	1.75
"	"	7¼	"	"	1¼	"	"	"	6,	"	"	2.15
"	"	8	"	"	1¼	"	"	"	7,	"	"	2.35

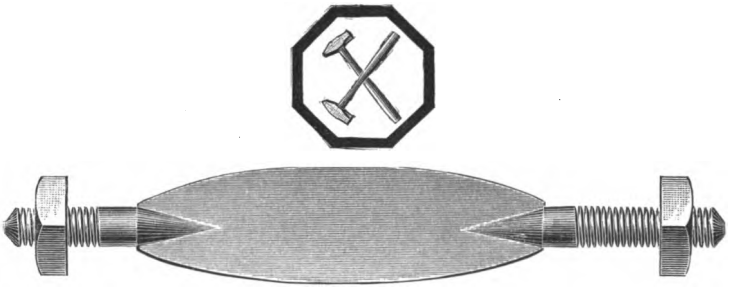
Put up in paper boxes of four dozen each.

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HAMMER AXLE CLIPS.

No. 297.

ONE LONG SHANK PATTERN.



Made of Norway Iron.

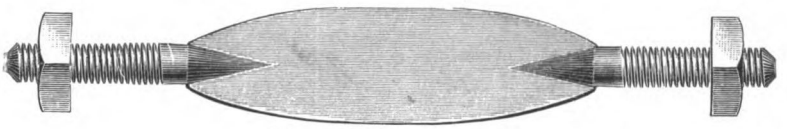
FLAT PART, 1¼ INCH WIDE. SHANK, ⅜ INCH DIAMETER.
LONG END, 2¼ INCHES. SHORT END, 1¼ INCHES.

Flat	part,	3½	inches	long,	1¼	inches	wide,	No.	00,...	per	dozen,	$1.15
"	"	4	"	"	1¼	"	"	"	0,...	"	"	1.30
"	"	4½	"	"	1¼	"	"	"	1,...	"	"	1.45
"	"	5	"	"	1¼	"	"	"	2....	"	"	1.60
"	"	5½	"	"	1¼	"	"	"	3,...	"	"	1.75
"	"	6	"	"	1¼	"	"	"	4,...	"	"	2.00
"	"	6½	"	"	1¼	"	"	"	5,...	"	"	2.15
"	"	7¼	"	"	1¼	"	"	"	6,...	"	"	2.35
"	"	8	"	"	1¼	"	"	"	7,...	"	"	2.50

Put up in paper boxes of four dozen each.

No. 298.

TWO LONG SHANK PATTERN.



Made of Norway Iron.

FLAT PART, 1¼ INCH WIDE. SHANK, ⅜ INCH DIAMETER.
BOTH ENDS, 2¼ INCHES LONG.

Flat	part,	3½	inches	long,	1¼	inches	wide,	No.	00,...	per	dozen,	$1.45
"	"	4	"	"	1¼	"	"	"	0,...	"	"	1.60
"	"	4½	"	"	1¼	"	"	"	1,...	"	"	1.75
"	"	5	"	"	1¼	"	"	"	2,...	"	"	2.10
"	"	5½	"	"	1¼	"	"	"	3,...	"	"	2.15
"	"	6	"	"	1¼	"	"	"	4,...	"	"	2.35
"	"	6½	"	"	1¼	"	"	"	5,...	"	"	2.50
"	"	7¼	"	"	1¼	"	"	"	6,...	"	"	2.60
"	"	8	"	"	1¼	"	"	"	7,...	"	"	2.75

Put up in paper boxes of four dozen each.

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SPRING BAR CLIPS.

No. 299.

PLAIN PATTERN.



Trade Mark.



Made of Norway Iron.

Be SURE *to state whether for* FLAT PART *or* NUMBER.

FLAT PART, $\frac{5}{8}$ INCH WIDE. SHANK, $\frac{5}{16}$ INCH DIAMETER.

Flat part, 4 inches long,				No. 00,		per dozen,		$0.90
"	"	$4\frac{1}{2}$	"	"	0,	"	"	1.00
"	"	$4\frac{3}{4}$	"	"	1,	"	"	1.15
"	"	$5\frac{1}{4}$	"	"	2,	"	"	1.22
"	"	$5\frac{3}{4}$	"	"	3,	"	"	1.30
"	"	$6\frac{3}{8}$	"	"	4,	"	"	1.45
"	"	7	"	"	5,	"	"	1.65
"	"	$7\frac{3}{4}$	"	"	6,	"	"	1.85

Put up in paper boxes of four dozen each.

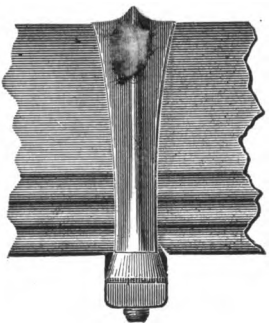
For drilled Clip Yokes to fit these Clips, see pages 78, 79, 80, and 81.

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SMITH'S SPRING BAR CLIPS.

No. 300.

Trade Mark.





Made from the Best Norway Rods.

Be SURE *to state whether for* FLAT PART *or* NUMBER.

										Per Dozen.
Center	4	inches	long,	No.	00,	Shank	5-16	inch	diameter, ...	$0.90
"	4½	"	"	"	0,	"	5-16	"	"	1.00
"	4¾	"	"	"	1,	"	5-16	"	"	1.15
"	5¼	"	"	"	2,	"	5-16	"	"	1.22
"	5¾	"	"	"	3,	"	5-16	"	"	1.30
"	6⅜	"	"	"	4,	"	5-16	"	"	1.45
"	7	"	"	"	5,	"	5-16	"	"	1.65
"	7¾	"	"	"	6,	"	5,16	"	"	1.85

Put up in paper boxes of four dozen each.

The above Spring Bar Clip is made ⅞ inch wide at the middle, where it draws on the spring bar, so that it will not cut the wood. It makes a light appearing, and at the same time stronger Spring Bar Clip than the same weight in any other form offered. The cavity forged in the center prevents the edges from being thrown up when bent over the wood.

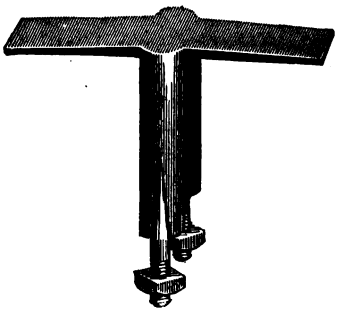
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BREWSTER & CO. SADDLE CLIPS.

No. 305.

NARROW CLIP PATTERN.

Trade Mark.



Made Solid in One Piece.

FOR 1¼ INCH SPRINGS.

No.	000½,	Flat part of Clip,			1⅜	inches	long,	.....	per	dozen,	$6.00
"	00,	"	"	"	2	"	"	.....	"	"	6.00
"	00½,	"	"	"	2¼	"	"	.....	"	"	6.00
"	0,	"	"	"	2⅜	"	"	.....	"	"	6.00
"	0½,	"	"	"	2½	"	"	.....	"	"	6.00
"	1,	"	"	"	2⅝	"	"	.....	"	"	6.00
"	2,	"	"	"	3⅛	"	"	.....	"	"	6.00
"	3,	"	"	"	3½	"	"	.....	"	"	6.00

FOR 1⅜ INCH SPRINGS.

No.	0,	Flat part of Clip,			2½	inches	long,	.....	per	dozen,	$6.00
"	1,	"	"	"	3	"	"	.....	"	"	6.00
"	2,	"	"	"	3½	"	"	.....	"	"	6.00
"	3,	"	"	"	4	"	"	.....	"	"	6.00

FOR 1½ INCH.

No.	0,	Flat part of Clip,			2½	inches	long,	.....	per	dozen,	$6.00
"	1,	"	"	"	3	"	"	.....	"	"	6.00
"	2,	"	"	"	3½	"	"	.....	"	"	6.00
"	3,	"	"	"	4	"	"	.....	"	"	6.00

The above Clips are *made solid in one piece* of the best Norway Iron, for double perch carriages.

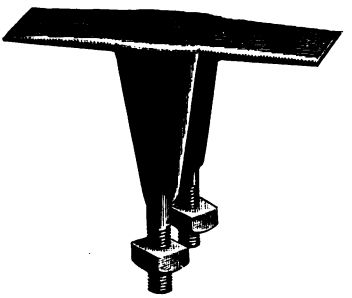
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SMITH'S

BREWSTER SADDLE CLIP.

No. 306.

WIDE CLIP PATTERN.



Trade Mark.

FOR 1¼ INCH SPRINGS.

No.	000,	Flat part of Clip,			1½	inches	long,	.....	per	dozen,	$6.00
"	000½,	"	"	"	1¾	"	"	.....	"	"	6.00
"	00,	"	"	"	2	"	"	.....	"	"	6.00
"	00½,	"	"	"	2¼	"	"	.....	"	"	6.00
"	0,	"	"	"	2⅜	"	"	.....	"	"	6.00
"	0½,	"	"	"	2½	"	"	.....	"	"	6.00
"	1,	"	"	"	2¾	"	"	.....	"	"	6.00
"	1½,	"	"	"	3	"	"	.....	"	"	6.00
"	2,	"	"	"	3⅛	"	"	.....	"	"	6.00
"	3,	"	"	"	3½	"	"	.....	"	"	6.00

FOR 1⅜ INCH SPRINGS.

No.	000½,	Flat part of Clip,			1¾	inches	long,	.....	per	dozen,	$6.00
"	00,	"	"	"	2	"	"	.....	"	"	6.00
"	00½,	"	"	"	2¼	"	"	.....	"	"	6.00
"	0,	"	"	"	2½	"	"	.....	"	"	6.00
"	0½,	"	"	"	2¾	"	"	.....	"	"	6.00
"	1,	"	"	"	3	"	"	.....	"	"	6.00
"	1½,	"	"	"	3¼	"	"	.....	"	"	6.00
"	2,	"	"	"	3½	"	"	.....	"	"	6.00
"	3,	"	"	"	4	"	"	.....	"	"	6.00

FOR 1½ INCH SPRINGS.

No.	000½,	Flat part of Clip,			1¾	inches	long,	.....	per	dozen,	$6.00
"	00,	"	"	"	2	"	"	.....	"	"	6.00
"	00½,	"	"	"	2¼	"	"	.....	"	"	6.00
"	0,	"	"	"	2½	"	"	.....	"	"	6.00
"	0½,	"	"	"	2¾	"	"	.....	"	"	6.00
"	1,	"	"	"	3	"	"	.....	"	"	6.00
"	1½,	"	"	"	3¼	"	"	.....	"	"	6.00
"	2,	"	"	"	3½	"	"	.....	"	"	6.00
"	3,	"	"	"	4	"	"	.....	"	"	6.00

All edges are rounded, with no sharp angles, and the Clips are of a style quite similar to the ordinary Axle Clip. They make an especially good match with our Rounded Edge and Point Center Axle Clip.

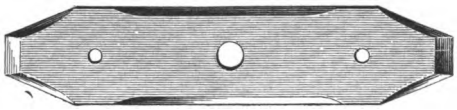
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Smith's Three-Piece Saddle Clips.

No. 308.

OCTAGON PATTERN.

Fig. 1.



Trade Mark.

Fig. 2.

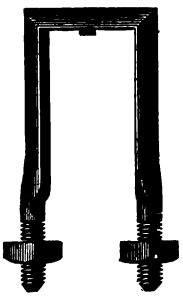
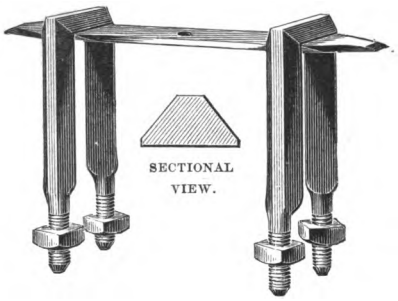


Fig. 3.



A Set consists of Two Clips and One Top Plate.

FOR 1¼ INCH SPRINGS.

			Per doz. Sets.
No.	00,	Flat part of Clip, 2 inches long, with Top Plates,	$4.00
"	00½,	" " " " 2¼ " " " " "	4.00
"	0,	" " " " 2⅜ " " " " "	4.25
"	0½,	" " " " 2½ " " " " "	4.25
"	1,	" " " " 2¾ " " " " "	4.50
"	1½,	" " " " 3 " " " " "	4.50
"	2,	" " " " 3⅛ " " " " "	5.00
"	2½,	" " " " 3¼ " " " " "	5.00
"	3,	" " " " 3½ " " " " "	5.50

FOR 1⅜ INCH SPRINGS.

			Per doz. Sets.
No	00,	Flat part of Clip, 2 inches long, with Top Plates,	$4.00
"	0,	" " " " 2½ " " " " "	4.50
"	1,	" " " " 3 " " " " "	5.00
"	2,	" " " " 3½ " " " " "	5.50
"	3,	" " " " 4 " " " " "	6.00

FOR 1½ INCH SPRINGS.

			Per doz. Sets.
No.	0,	Flat part of Clip, 2½ inches long, with Top Plates,	$4.50
"	1,	" " " " 3 " " " " "	5.00
"	2,	" " " " 3½ " " " " "	5.50
"	3,	" " " " 4 " " " " "	6.00

Put up in paper boxes of one dozen each.

Top Plates have edges milled to a true bevel, and all the corners on the Clips are worked out to sharp, well-defined angles.

These Saddle Clips, which are polished ready for painting, are of a style that make a neat finish, and we offer them as the best three-piece Saddle Clip in market.

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"Anvil" Three Piece Saddle Clips.

No. 309.

FULL HALF ROUND PATTERN.

Fig. 5.

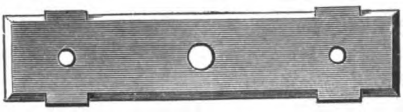
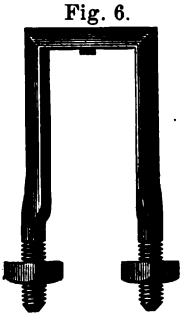
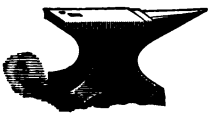


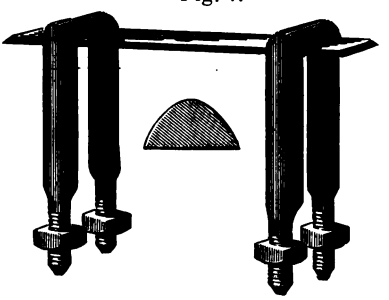
Fig. 6.





Trade Mark.

Fig. 7.



A Set consists of two Clips and one Top Plate.

FOR 1¼ INCH SPRINGS.

		Per doz. Sets.
No. 000½,	Flat part of Clip, 1⅜ inches long, with Top Plates,	$5.00
" 00,	" " " " 2 " " " " "	5.00
" 00½,	" " " " 2¼ " " " " "	5.00
" 0,	" " " " 2⅜ " " " " "	5.00
" 0½,	" " " " 2½ " " " " "	5.00
" 1,	" " " " 2¾ " " " " "	5.00
" 1½,	" " " " 3 " " " " "	5.00
" 2,	" " " " 3⅛ " " " " "	5.00
" 2½,	" " " " 3¼ " " " " "	5.00
" 3,	" " " " 3½ " " " " "	5.00
" 4,	" " " " 4 " " " " "	5.00

FOR 1⅜ INCH SPRINGS.

		Per doz. Sets.
No. 00,	Flat part of Clip, 2 inches long, with Top Plates,	$5.00
" 0,	" " " " 2½ " " " " "	5.00
" 1,	" " " " 3 " " " " "	5.00
" 2,	" " " " 3½ " " " " "	5.00
" 3,	" " " " 4 " " " " "	5.00

FOR 1½ INCH SPRINGS.

		Per doz. Sets.
No. 0,	Flat part of Clip, 2½ inches long, with Top Plates,	$5.00
" 1,	" " " " 3 " " " " "	5.00
" 2,	" " " " 3½ " " " " "	5.00
" 3,	" " " " 4 " " " " "	5.00
" 4,	" " " " 4½ " " " " "	5.00
" 5,	" " " " 5 " " " " "	5.00

Put up in paper boxes of one dozen each.

Space between outside holes of Top Plates, 3½ inches, except when *specially ordered*, 4 inches.

The Clips are polished, and the Top Plates made of wrought iron, with a smooth black finish, except the edges, which are milled to a true bevel.

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PATENT AXLE SADDLE CLIPS.

No. 312.



FOR WOODEN AXLES.

													Per Dozen.
$\frac{7}{8}$	in.	Axle,	for	$1\frac{1}{4}$	in.	Spring,	Flat	part	of	Clip,	2	in. long,	$12.00
1	"	"	"	$1\frac{1}{4}$	"	"	"	"	"	"	2	" "	12.00
$1\frac{1}{16}$	"	"	"	$1\frac{1}{4}$	"	"	"	"	"	"	2	" "	12.00
$1\frac{1}{8}$	"	"	"	$1\frac{1}{4}$	"	"	"	"	"	"	2	" "	12.00
$1\frac{3}{16}$	"	"	"	$1\frac{1}{4}$	"	"	"	"	"	"	2	" "	12.00
1	"	"	"	$1\frac{3}{8}$	"	"	"	"	"	"	2	" "	14.00
$1\frac{1}{8}$	"	"	"	$1\frac{3}{8}$	"	"	"	"	"	"	2	" "	14.00
1	"	"	"	$1\frac{1}{2}$	"	"	"	"	"	"	2	" "	14.00
$1\frac{1}{8}$	"	"	"	$1\frac{1}{2}$	"	"	"	"	"	"	2	" "	14.00
$1\frac{1}{4}$	"	"	"	$1\frac{1}{2}$	"	"	"	"	"	"	2	" "	14.00

FOR IRON AXLES (WITHOUT WOOD).

													Per Dozen.
$\frac{7}{8}$	in.	Axle,	for	$1\frac{1}{4}$	in.	Spring,	Flat	part	of	Clip,	$\frac{7}{8}$	in. long,	$12.00
1	"	"	"	$1\frac{1}{4}$	"	"	"	"	"	"	$\frac{15}{16}$	" "	12.00
$1\frac{1}{16}$	"	"	"	$1\frac{1}{4}$	"	"	"	"	"	"	$\frac{15}{16}$	" "	12.00
$1\frac{1}{8}$	"	"	"	$1\frac{1}{4}$	"	"	"	"	"	"	$1\frac{1}{16}$	" "	12.00
$1\frac{3}{16}$	"	"	"	$1\frac{1}{4}$	"	"	"	"	"	"	$1\frac{1}{16}$	" "	12.00
1	"	"	"	$1\frac{3}{8}$	"	"	"	"	"	"	$1\frac{5}{16}$	" "	14.00
$1\frac{1}{8}$	"	"	"	$1\frac{3}{8}$	"	"	"	"	"	"	$1\frac{1}{16}$	" "	14.00
1	"	"	"	$1\frac{1}{2}$	"	"	"	"	"	"	$\frac{15}{16}$	" "	14.00
$1\frac{1}{8}$	"	"	"	$1\frac{1}{2}$	"	"	"	"	"	"	$1\frac{1}{16}$	" "	14.00
$1\frac{1}{4}$	"	"	"	$1\frac{1}{2}$	"	"	"	"	"	"	$1\frac{1}{8}$	" "	14.00

The above iron is designed to clip on to the Axle, and form a support and fastening for springs on three and four spring work. As shown in the above cut, these Saddle Clips have flanges projecting between the Clips, to give more bearing on the Axle, and relieve the Clips from strain by sway of the spring.

SHORT SPRING CLIPS, DESIGNED FOR THE ABOVE, ON PAGES 147, 148 AND 149.

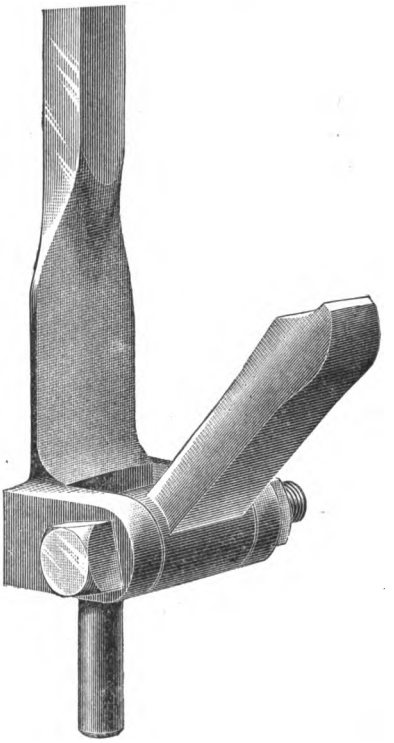
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Extra Heavy Wagon Couplings.

No. 57.

STRAIGHT EAR PATTERN.

Trade Mark.



	Per Dozen Pairs. Black.
1⅝ inch Eye, 1½ by 1 1/16 inch, 7/16 inch Bolts, Ears ½ inch thick,	$25.00
1¾ " " 1¾ " 1¼ " ½ " " " ½ " "	30.00
2 " " 2 " 1⅜ " ⅝ " " " ⅝ " "	50.00

For Lighter Sizes of this Pattern, see Page 14.

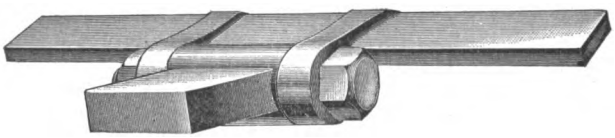
The bolt and inside of the joints are milled to an accurate fit. They are made expressly for Heavy Express and Truck Wagons, and are the heaviest coupling in market.

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FRONT BAR SHAFT COUPLINGS.

No. 315.

Trade Mark.



2¼ inch, Eye 2¼ inch by 1⅜ inch, Bolt ½ inch,.....per pair, $2.25

EARS ⅝ INCH THICK. FLAT PART 1 5/16 INCHES WIDE, 12 INCHES LONG.

Ears and Flat Part Forged Solid from One Piece of Norway Iron.

This Coupling is designed to bolt to the top of the Splinter Bar, for Heavy Wagons and Trucks.

TRUCK BINDER PINS.

No. 316.



No. 1, Rope space, 1 inch,.....per dozen, $1.20
" 2, " " 1¼ " ..... " " 1.50

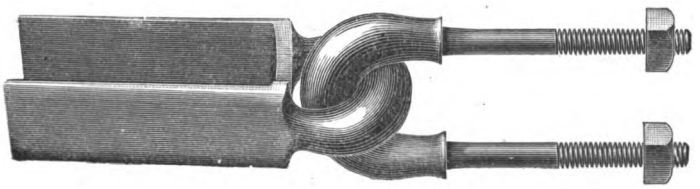
Used on Truck or Wagon Frames to bind the rope binder around.

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CLEVIS AND DRAW BOLT.

No. 317.

Trade Mark.



Made of Steel suitable for this purpose.

No. 0, Clevis and Draw Bolt,	per dozen pairs,	$13.00
" 1, " " " "	" " "	15.00
" 0, " without Draw Bolt,	" " "	6.50
" 1, " " " "	" " "	7.50
" 0, Draw Bolt, without Clevis,	" " "	6.50
" 1, " " " "	" " "	7.50

No. 0, Clevis Strap, Flat part, 1¼ in., Diameter at bend, ¾ inch.
" 1, " " " " 1½ " " " " 15/16 "
" 0, Draw Bolt, Dia. at bend, ¾ " Dia. of Thread end, 5/16 inch.
" 1, " " " " " 15/16 " " " " " 3/8 "

No. 0, Clevis, Space between Flat part is 1¼ inches.
" 1, " " " " " 1⅝ "

Clevis can be adjusted to fit different Sizes of Bars or Eveners.

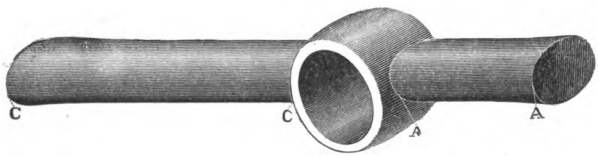
Digitized by Google

LOCK HANGERS.

No. 318.

FOR WAGON BRAKES.

Trade Mark.

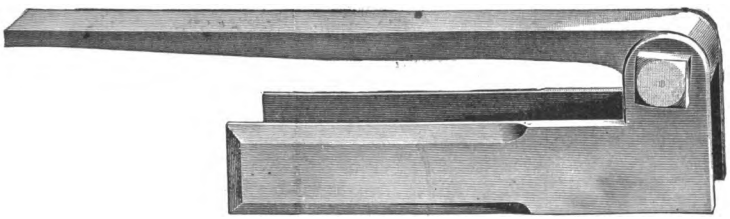


1⅛ inch,	...	per pair,	$1.00
1 3/16 "	...	" "	1.00
1¼ "	...	" "	1.00
1 5/16 "	...	" "	1.00

Size of Oval from A to C, 1⅛ inch by ¾ inch.
Length from C to C, 6 inches. Length from A to A, 4 inches.

WAGON SEAT HINGES.

No. 319.



1½ inch, size of Eye, 1½ inch by 1 5/16 inch, ... per pair, $1.50

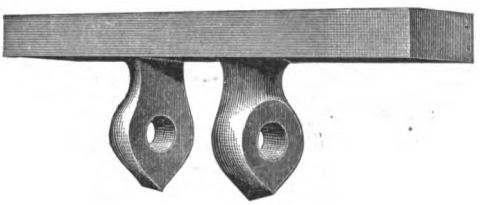
Length of Shank to Eye, 13 inches.
Length of Ear Plates from Shoulder, 6⅛ inches.

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Splinter Bar Spring Shackles.

No. 320.

Trade Mark.



Forged from the Best Norway Iron.

No.	Inch.			Inch.			Inch.	Per Pair.
2,	for $1\frac{1}{2}$	Springs,	with Holes	$\frac{8}{8}$,	size of	Bar,	1 by $\frac{7}{16}$	$1.50
3,	" $1\frac{3}{4}$	"	" "	$\frac{7}{16}$,	" "	"	1 " $\frac{1}{2}$,	1.50
4,	" 2	"	" "	$\frac{1}{2}$,	" "	"	$1\frac{1}{8}$ " $\frac{9}{16}$,	1.75
5,	" $2\frac{1}{4}$	"	" "	$\frac{9}{16}$,	" "	"	$1\frac{1}{4}$ " $\frac{5}{8}$,	2.00
6,	" $2\frac{1}{2}$	"	" "	$\frac{5}{8}$,	" "	"	$1\frac{1}{4}$ " $\frac{3}{4}$,	2.25
7,	" $2\frac{3}{4}$	"	" "	$\frac{3}{4}$ or $\frac{5}{8}$,	" "	"	$1\frac{3}{8}$ " $\frac{7}{8}$,	2.50
8,	" 3	"	" "	$\frac{3}{4}$ " $\frac{5}{8}$,	" "	"	$1\frac{1}{2}$ " $\frac{7}{8}$,	3.15

Shackles with other sizes of Holes made to order.

For Bolts fitted to these Couplings, see page 120.

A first-class forging, made for welding to the iron that extends across the under side of the Front Bar used on Trucks and Heavy Wagons.

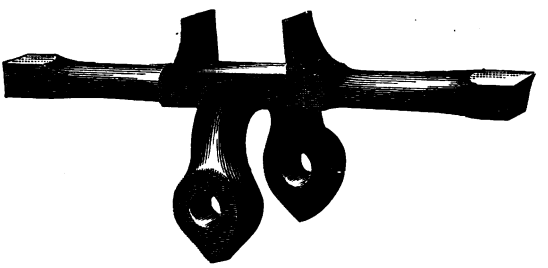
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PLATFORM BODY COUPLINGS.

No. 322.

SWAGED PATTERN.

Trade Mark.



Forged from the Best Norway Iron.

No.	2,	for	1½	inch	Springs,	with	holes	⅜	inch,	per pair,	$2.00
"	3,	"	1¾	"	"	"	"	7/16	"	"	2.00
"	4,	"	2	"	"	"	"	½	"	"	2.25
"	5,	"	2¼	"	"	"	"	9/16	"	"	2.50
"	6,	"	2½	"	"	"	"	⅝	"	"	3.00
"	7,	"	2¾	"	"	"	"	¾ or ⅝	inch,	"	3.50
"	8,	"	3	"	"	"	"	¾ " ⅝	"	"	4.00

For Bolts fitted to these Couplings, see page 120.

Couplings with other sizes of Holes made to order.

The above, which are for coupling the Spring to the Body, are a first-class forging, with *drilled* holes.

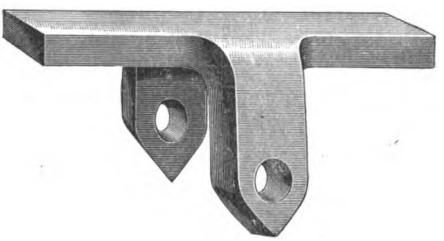
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PLATFORM BODY COUPLINGS.

No. 323.

STRAIGHT EAR PATTERN.

Trade Mark.



Forged from One Solid Piece of a good Quality of Steel.

No. 2, for	1½	inch	Springs,	with	holes	⅜	inch,	.....	per	pair,	$2.00
" 3, "	1¾	"	"	"	"	7/16	"	.....	"	"	2.00
" 4, "	2	"	"	"	"	½	"	.....	"	"	2.25
" 5, "	2¼	"	"	"	"	9/16	"	.....	"	"	2.50
" 6, "	2½	"	"	"	"	⅝	"	.....	"	"	3.00
" 7, "	2¾	"	"	"	"	¾ or ⅝	inch,	....	"	"	3.50
" 8, "	3	"	"	"	"	¾ " ⅝	"	....	"	"	4.00

Couplings with other sizes of Holes made to order.

For Bolts fitted to these Couplings, see page 120.

The above, which are for coupling the Spring to the Body, are a first-class forging, with *drilled* holes.

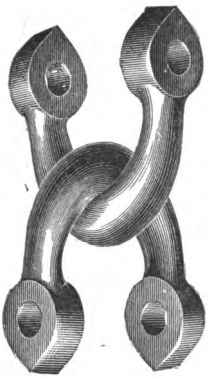
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PLATFORM SPRING SHACKLES.

No. 325.

LOOSE PATTERN.

Trade Mark.



Forged from a good Quality of Steel.

A Set consists of four Shackles. as shown above, or eight pieces.

No. 2, for	$1\frac{1}{2}$	inch Springs, with holes	$\frac{3}{8}$	inch,	.....	per set,	$1.75
" 3, "	$1\frac{3}{4}$	" " " "	$\frac{7}{16}$	"	.....	" "	1.75
" 4, "	2	" " " "	$\frac{1}{2}$	"	.....	" "	2.00
" 5, "	$2\frac{1}{4}$	" " " "	$\frac{9}{16}$	"	.....	" "	2.25
" 6, "	$2\frac{1}{2}$	" " " "	$\frac{5}{8}$	"	.....	" "	2.75
" 7, "	$2\frac{3}{4}$	" " " "	$\frac{3}{4}$	or $\frac{5}{8}$ inch,	....	" "	3.25
" 8, "	3	" " " "	$\frac{3}{4}$	" $\frac{5}{8}$ "	....	" "	3.50

For Bolts fitted to these Shackles, see page 120.

The above are a first-class forging, with *drilled* holes, and are for the accommodation of any who may prefer Platform Spring Shackles in two pieces, to those made solid as shown on page 119. These Shackles are made from Steel specially adapted for this purpose, which makes a stronger, more durable article for this purpose than Iron.

Shackles wanted with holes different from the above will be furnished to order.

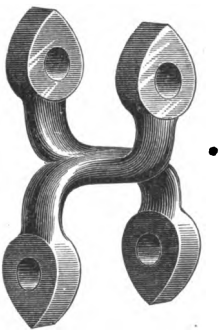
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PLATFORM SPRING SHACKLES.

No. 326.

SOLID PATTERN.

Trade Mark.



Forged from One Solid Piece of Steel.

A Set consists of Four Shackles.

No.	0,	for	1¼	inch	Springs,	with	holes	⅜	inch, ...	per set,	$1.50
"	1,	"	1⅜	"	"	"	"	⅜	"	" "	1.65
"	2,	"	1½	"	"	"	"	⅜	"	" "	1.65
"	3,	"	1¾	"	"	"	"	7/16	"	" "	1.75
"	4,	"	2	"	"	"	"	½	"	" "	2.00
"	5,	"	2¼	"	"	"	"	9/16	"	" "	2.25
"	6,	"	2½	"	"	"	"	⅝	"	" "	2.75
"	7,	"	2¾	"	"	"	"	¾	or ⅝ inch, ...	" "	3.25
"	8,	"	3	"	"	"	"	¾	" ⅝ "	" "	3.50

For Bolts fitted to these Couplings, see page 120.

The above are a first-class forging, with *drilled* holes, and are for coupling Platform Springs. We now make these Shackles from a superior quality of Steel, specially adapted for this purpose, which makes a stronger, more reliable article for this purpose than Iron.

Shackles wanted with holes different from the above will be furnished to order.

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PLATFORM SHACKLE BOLTS.

HEXAGON HEAD AND NUT.

3-8	inch	× $2\frac{5}{8}$	inch	Bolts,	for	No.	0	Platform	Shackle,	per set,	$0.25
3-8	"	× $2\frac{3}{4}$	"	"	"	"	1	"	"	" "	.25
3-8	"	× 3	"	"	"	"	2	"	"	" "	.25
7-16	"	× $3\frac{1}{2}$	"	"	"	"	3	"	"	" "	.35
1-2	"	× $3\frac{7}{8}$	"	"	"	"	4	"	"	" "	.45
9-16	"	× $4\frac{3}{8}$	"	"	"	"	5	"	"	" "	.75
5-8	"	× $4\frac{3}{4}$	"	"	"	"	6	"	"	" "	.75
5-8	"	× $5\frac{1}{4}$	"	"	"	"	7	"	"	" "	.80
3-4	"	× $5\frac{3}{8}$	"	"	"	"	7	"	"	" "	1.05
5-8	"	× $5\frac{3}{8}$	"	"	"	"	8	"	"	" "	.80
3-4	"	× $5\frac{1}{4}$	"	"	"	"	8	"	"	" "	1.05

SIDE-BAR SHACKLE BOLTS.

FLAT TOP BEVELED HEAD.

5-16	inch	Bolt,	for	$1\frac{1}{8}$	Side	Bar	Shackle,	.....	per	dozen	pairs, $0.75
5-16	"	"	"	$1\frac{1}{4}$	"	"	"	.....	"	"	" .75
5-16	"	"	"	$1\frac{3}{8}$	"	"	"	.....	"	"	" .75
5-16	"	"	"	$1\frac{1}{2}$	"	"	"	.....	"	"	" .75

SQUARE HEAD.

5-16	inch	Bolt,	for	$1\frac{1}{4}$	Side	Bar	Shackle,	.....	per	dozen	pairs, $0.75
5-16	"	"	"	$1\frac{3}{8}$	"	"	"	.....	"	"	" .75
5-16	"	"	"	$1\frac{1}{2}$	"	"	"	.....	"	"	" .75

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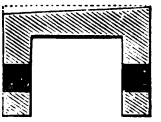
SIDE-BAR SPRING SHACKLES.

No. 340.

SMOOTH FINISH PATTERN.



Trade Mark.



Sectional View.

For *1⅛	in. Spring,	1¼	in. Bar,	5/16	in Hole,	....	per dozen pairs,	$3.00
" *1⅛	"	"	1⅜	"	"	5/16	"	"	....	"	"	"	3.00
" 1¼	"	"	1	"	"	5/16	"	"	....	"	"	"	3.00
" 1¼	"	"	1⅛	"	"	5/16	"	"	....	"	"	"	3.00
" 1¼	"	"	1¼	"	"	5/16	"	"	....	"	"	"	3.00
" 1¼	"	"	1⅜	"	"	5/16	"	"	....	"	"	"	3.00
" 1⅜	"	"	1	"	"	5/16	"	"	....	"	"	"	3.00
" 1⅜	"	"	1⅛	"	"	5/16	"	"	....	"	"	"	3.00
" 1⅜	"	"	1¼	"	"	5/16	"	"	....	"	"	"	3.00
" 1⅜	"	"	1⅜	"	"	5/16	"	"	....	"	"	"	3.00
" 1½	"	"	1⅛	"	"	5/16	"	"	....	"	"	"	3.50
" 1½	"	"	1¼	"	"	3/8	"	"	....	"	"	"	3.50
" 1½	"	"	1¼	"	"	5/16	"	"	....	"	"	"	3.50
" 1½	"	"	1¼	"	"	3/8	"	"	....	"	"	"	3.50
" 1½	"	"	1⅜	"	"	5/16	"	"	....	"	"	"	3.50
" 1½	"	"	1⅜	"	"	3/8	"	"	....	"	"	"	3.50
Extra, for Shackles with Bolts, (see page 120),										"	"	"	.75

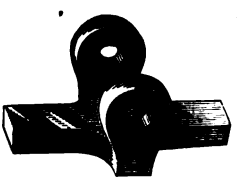
* Made in fair sized lots to *order only*.

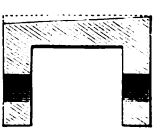
As shown in the sectional view, these Shackles are beveled on the back to compensate for the curve of the Side Bar.

SIDE-BAR SPRING SHACKLES.

No. 341.

PLAIN PATTERN.





Sectional View.

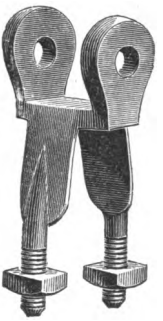
For 1⅛	in., 1¼	in., and 1⅜	in. Spring,	....	per dozen pairs,	$3.00
" 1½	inch Spring,	....	"	"	"	3.50
Extra, for Shackles with Bolts, (see page 120),											"	"	"	.75

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"C" COUPLINGS.

No. 343.

Trade Mark.



FOR 1¼ INCH SPRING.

Front, Flat part of Clip, 1¼ inch long,.....per dozen pairs, $8.00
Rear, " " " " 1⅝ " " ..... " " " 8.00

A special Spring Coupling made to order, of sizes given above, for use on patent gears.

LOWER REAR COUPLINGS.

No. 344.



For ⅞ inch Axle, 1¼ in. Spring,.....per dozen pairs, $4.50
" 1 " " 1¼ " " ..... " " " 4.50
" 1⅛ " " 1¼ " " ..... " " " 5.50
" 1¼ " " 1¼ " " ..... " " " 5.50

A special Spring Coupling made to order, of sizes given above, for use on patent gears.

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SMITH'S

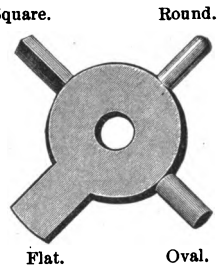
BLACKSMITHS' STEEL TONGS.

No. 350.



Trade Mark.

Blacksmiths say these Tongs are right.





Set Open.						
0 inch,	$6.50	7.00	7.50	8.00	9 00	per dozen.
	12	14	16	18	20	inch.
⅛ inch,	$6.50	7.00	7.50	8.00	9.00	per dozen.
	12	14	16	18	20	inch.
¼ inch,	$6.50	7.00	7.50	8.00	9.00	per dozen.
	12	14	16	18	20	inch.
⅜ inch,	$8.50	9.00	9.50	10.00	11.00	per dozen.
	16	18	20	24	28	inch.
½ inch,	$8.50	9.00	9.50	10.00	11.00	per dozen.
	16	18	20	24	28	inch.
⅝ inch,	$9.50	10.00	11.00	13.00		per dozen.
	18	20	24	28		inch.
¾ inch,	$9.50	10.00	11.00	13.00		per dozen.
	18	20	24	28		inch.
⅞ inch,	$12.00	13.00	15.00			per dozen.
	20	24	30			inch.
1 inch,	$12.00	13.00	15.00			per dozen.
	20	24	30			inch.

Lips set to open from 0 to 1 inch when lips are parallel. Will hold square, round, flat, or oval iron.

Made without weld from one solid piece of superior quality of soft steel. The handles are made of a smooth uniform taper of right proportion.

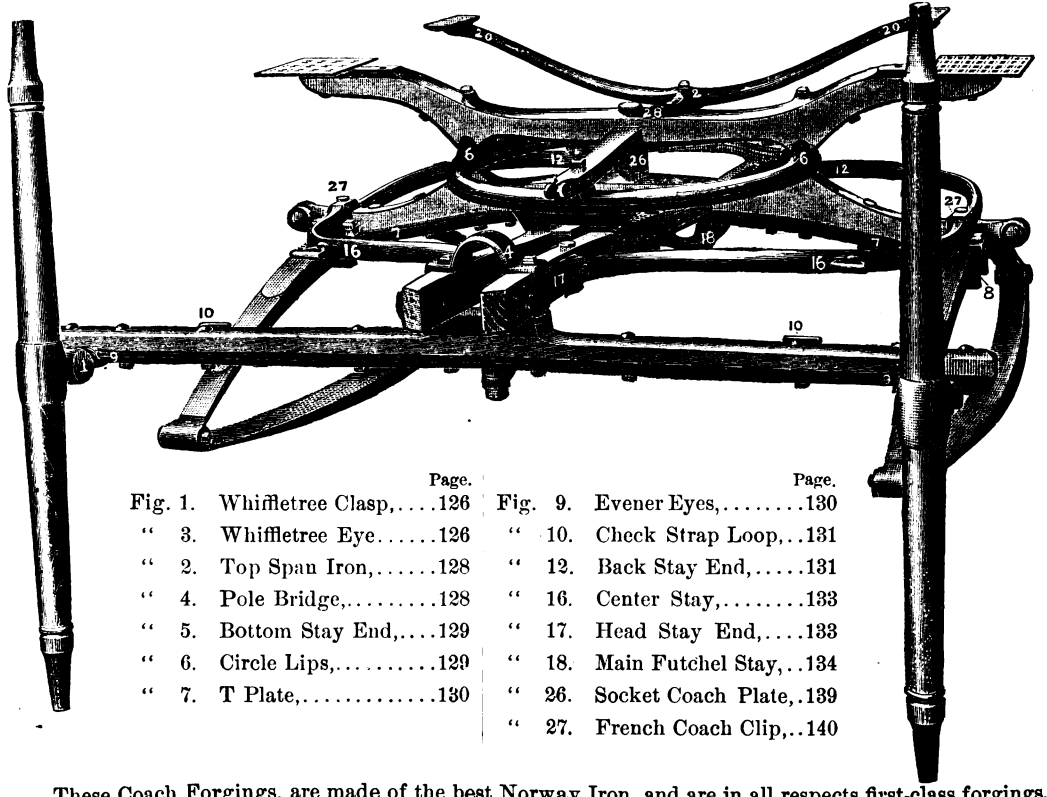
We offer them as a first-class article in every respect.

Digitized by Google

ILLUSTRATION OF LANDAU GEAR, SHOWING WHERE OUR COACH IRONS ARE USED.

No. 354.

FIGURES BELOW REFER TO FIG. NUMBER OVER ILLUSTRATIONS ON PAGES FOLLOWING.



		Page.			Page.
Fig. 1.	Whiffletree Clasp,	126	Fig. 9.	Evener Eyes,	130
" 3.	Whiffletree Eye	126	" 10.	Check Strap Loop,	131
" 2.	Top Span Iron,	128	" 12.	Back Stay End,	131
" 4.	Pole Bridge,	128	" 16.	Center Stay,	133
" 5.	Bottom Stay End,	129	" 17.	Head Stay End,	133
" 6.	Circle Lips,	129	" 18.	Main Futchel Stay,	134
" 7.	T Plate,	130	" 26.	Socket Coach Plate,	139
			" 27.	French Coach Clip,	140

These Coach Forgings, are made of the best Norway Iron, and are in all respects first-class forgings.

Trade Mark.

Digitized by Google

ILLUSTRATION OF BROUGHAM GEAR, SHOWING WHERE OUR COACH IRONS ARE USED.

No. 355.

FIGURES BELOW REFER TO FIG. NUMBERS OVER ILLUSTRATIONS ON PAGES FOLLOWING.

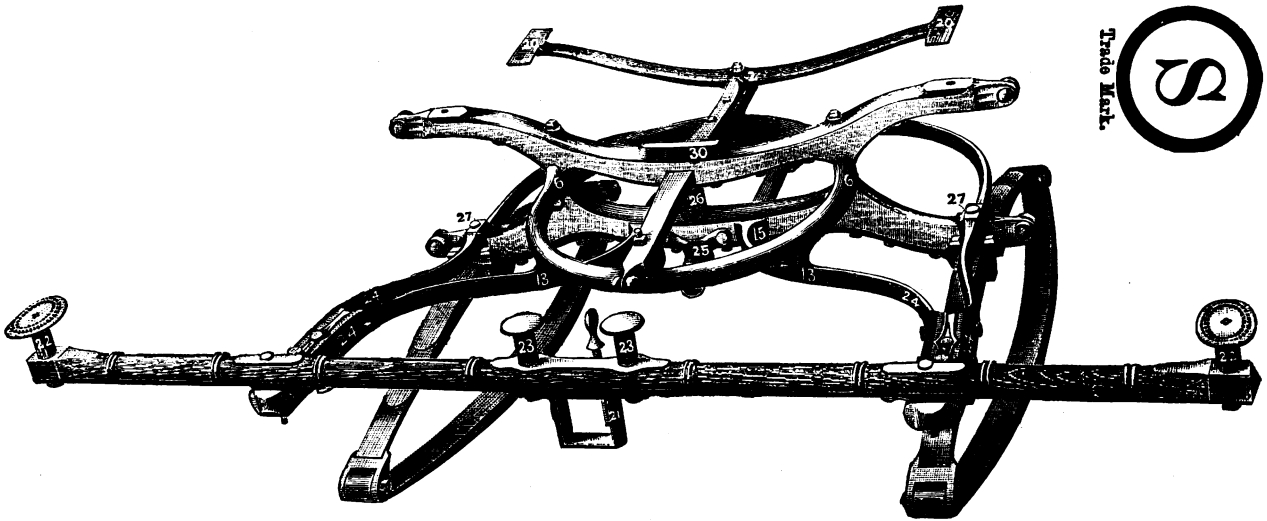


Fig.	2.	Top Span Iron,.....Page	128	Fig.	22.	Coach Trace Bolt,....Page	137
"	6.	Circle Lip,..... "	129	"	23.	Coach Trace Bolt,.... "	137
"	13.	Fifth Wheel Rest,.... "	132	"	26.	Socket Coach Plate,... "	139
"	15.	Futchel Stay End,.... "	132	"	27.	French Coach Clip,... "	140
"	21.	Square Pole Holder,.. "	136	"	7.	T Plate,..... "	130

These Coach Forgings are made of the best Norway Iron, and are in all respects first-class forgings.

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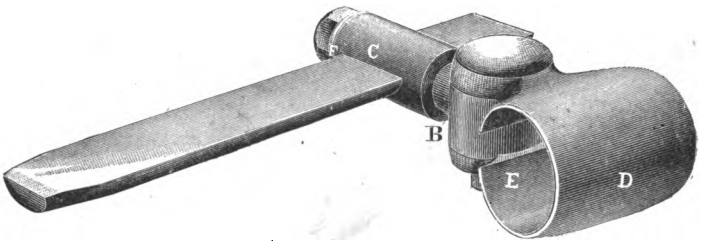
Coach Whiffletree Couplings.

No. 356.

CLASP PATTERN.

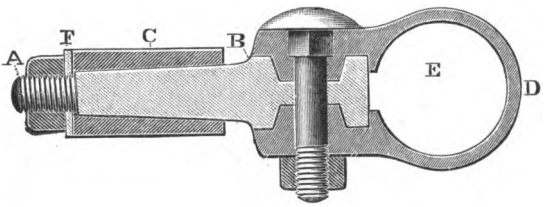
Trade Mark.

Fig. 1.



SECTIONAL VIEW.

FIG. 2.



Evener Eye (C) 1¼ inch by 2⅜ inch.

Inside diameter of opening (E) of Whiffletree Clasp, 2 inch or 2¼ inch when closed.

For 2 inch Whiffletree,	per pair,	$10.50
" 2¼ " "	" "	10.50
Without Evener Eye,	" "	8.75

The Clasp (D) is made to spring open when not confined with the bolt and nut, to admit of the Whiffletree being easily placed, and to bind tightly on the Whiffletree when the nut is turned up. The washer (F) is a lock washer, which prevents the nut from loosening. This coupling is made of the best material, milled to an accurate fit in all its parts, and is a first-class article in every respect.

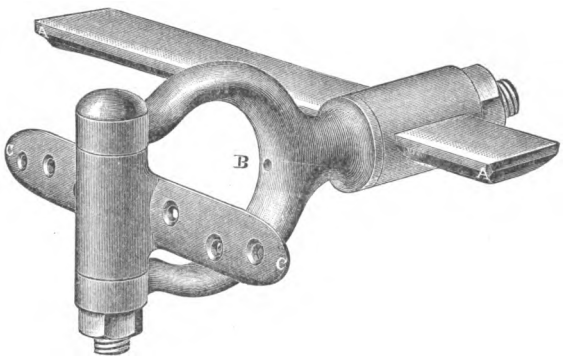
Digitized by Google

Coach Whiffletree Coupling.

No. 357.

ROW LOCK PATTERN.

Trade Mark.



The Clevis B and Evener Eye A made of Best Norway Iron.

	Per Pair.
No. 1, for 1½ inch, 1⅝ inch, and 1¾ inch Whiffletrees,	$3.50
" 2, " 1⅞ " 2 " Whiffletrees,	3.50
" 1, Without Evener Eye,	2.00
" 2, " " "	2.00

No. 1, Evener Eye A 1 1/16 inch Diameter, 1¾ inch wide, 9/16 inch hole.
" 2, " " " 1⅛ " " 2 " " ⅝ " "

Flat part of Evener Eye A A 1¼ inch wide.

The above Whiffletree Coupling is a first-class forging, and the joints are milled to an accurate fit.

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COACH TOP SPAN IRON.

No. 359.

Trade Mark.

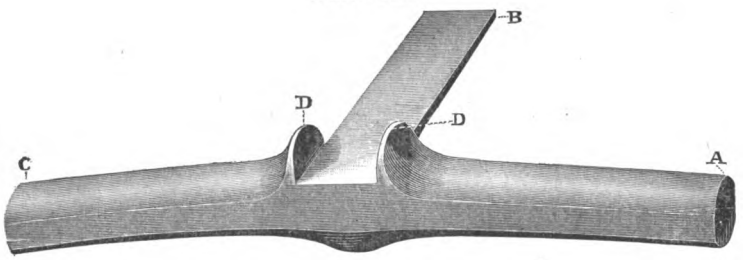


Fig. 2.

Forged from the Best Norway Iron.

SIZE AT A AND C, 1⅜ INCH BY 1 INCH. SIZE AT B, 1⅜ INCH BY $\frac{7}{16}$ INCH. SPACE BETWEEN LIPS DD, 1⅜ INCH.

No. 2,.....each, $1.50

COACH POLE BRIDGE.

No. 360.

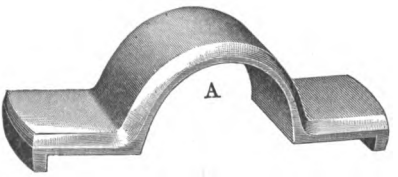


Fig. 4.

WIDTH OF BEND FROM B TO B, 2½ INCHES. DEPTH AT A, 1½ INCHES.

No. 2,.....each, $0.50

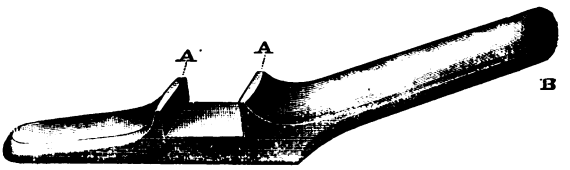
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COACH BOTTOM STAY END.

No. 361.

Trade Mark.

Fig. 5.



Forged from the Best Norway Iron.

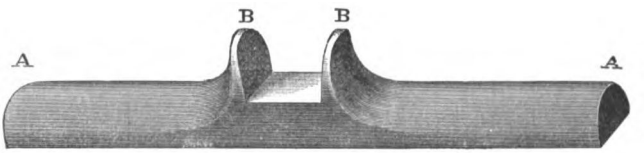
SPACE BETWEEN LIPS AA, $1\frac{1}{4}$ INCH. SIZE OF OVAL AT B, $1\frac{1}{4}$ INCH BY $\frac{3}{4}$ INCH.

No. 2,.....per pair, $1.10

COACH CIRCLE LIPS.

No. 362.

Fig. 6.



SIZE OF OVAL AT A, $1\frac{5}{16}$ INCH BY $\frac{3}{4}$ INCH. SPACE BETWEEN LIPS BB, $1\frac{5}{16}$ INCH.

No. 2,.....per pair, $1.50

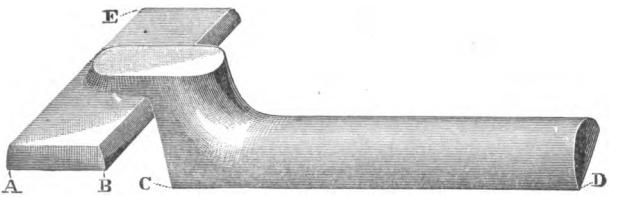
Digitized by Google

COACH T PLATE.

No. 363.

Trade Mark.

Fig. 7 and 8.



Forged from the Best Norway Iron.

No. 1. Size of Oval at D, $1\frac{9}{16}$ inch by $\frac{3}{4}$ inch. Shoulder from C to B, 1 inch. Width of Plate from A to B, $1\frac{3}{4}$ inch. Length of Plate from A to E, $5\frac{3}{4}$ inch.

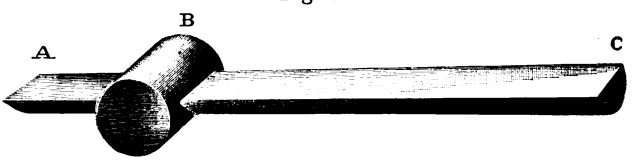
No. 2. Size of Oval at D, $1\frac{3}{4}$ inch by $1\frac{3}{16}$ inch. Shoulder from C to B, $1\frac{3}{16}$ inch. Width of Plate from A to B, $1\frac{13}{16}$ inch. Length of Plate from A to E, $4\frac{3}{4}$ inch.

No. 1,.....per pair, $1.90
" 2,..... " " 2.20

COACH EVENER EYES.

No. 364.

Fig. 9.



Forged from the Best Norway Iron.

Size at A, $1\frac{1}{2}$ inch by $\frac{1}{2}$ inch. Size-Eye, B, $2\frac{3}{8}$ inch wide, $\frac{5}{16}$ diameter. Size at C, $1\frac{9}{16}$ inch by $\frac{1}{2}$ inch.

No. 2,.....per pair, $1.50

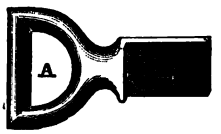
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COACH CHECK STRAP LOOP.

No. 365.

Trade Mark.

Fig. 10.



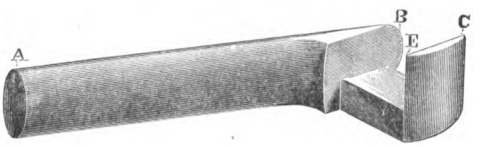
INSIDE MEASUREMENT OF LOOP A, 1¼ INCH.

No. 2,.....per pair, $0.50

COACH BACK STAY END.

No. 366.

Figs. 11 and 12.



First-Class Forging of the Best Norway Iron.

Oval part A 1⅛ inch by ⅝ inch, Length from A to B 6 inches,

Space E from B to C 1¼ inch.

No. 2,.....per pair, $1.25

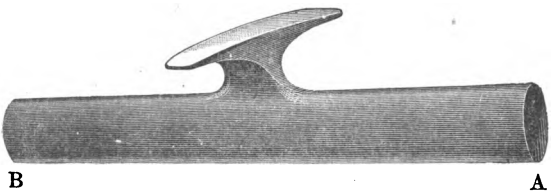
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COACH FIFTH WHEEL REST.

No. 367.

Trade Mark.

Fig. 13.



Forged from the Best Norway Iron.

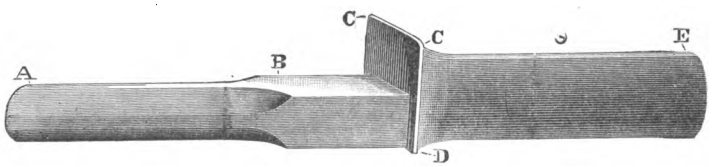
SIZE AT A, $1\frac{3}{16}$ BY $\frac{3}{4}$ INCH. SIZE AT B, $1\frac{3}{16}$ INCH BY $\frac{11}{16}$ INCH.

No. 2,.....per pair, $1.80

FUTCHEL STAY CENTERS.

No. 368.

Figs. 14 and 15.



Forged from the Best Norway Iron.

SIZE OF OVAL AT A, $1\frac{1}{4}$ INCH BY $\frac{3}{4}$ INCH. SIZE OF OVAL AT E, $1\frac{1}{4}$ INCH BY $\frac{7}{8}$ INCH. SIZE OF FLAT AT B, $1\frac{3}{8}$ INCH BY $\frac{3}{4}$ INCH.

No. 2, Rights and Lefts,.....per pair, $1.60

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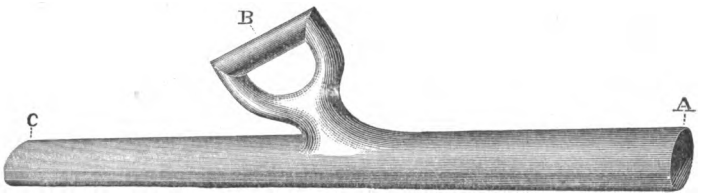
COACH CENTER STAY.

No. 369.

WITH STRAP LOOP.

Trade Mark.

Fig. 16.



Forged from the Best Norway Iron.

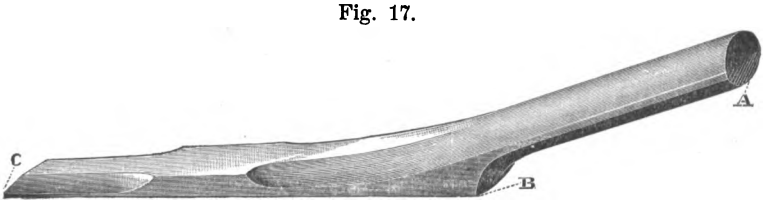
SIZE OVAL AT A, $1\frac{3}{16}$ INCH BY $\frac{3}{4}$ INCH, TAPERING TO $1\frac{1}{8}$ INCH BY $\frac{11}{16}$ INCH AT C. SIZE OF LOOP B, INSIDE, $1\frac{1}{4}$ INCH. LENGTH FROM C TO A, 12 INCHES. LENGTH FROM C TO B, 5 INCHES.

No. 2,..... .....per pair, $1.60

COACH HEAD STAY END.

No. 370.

Fig. 17.



Forged from the Best Norway Iron.

SIZE FROM C TO B, $1\frac{1}{4}$ INCH WIDE BY 9 INCHES LONG. SIZE OF OVAL AT A, $1\frac{1}{8}$ INCH BY $\frac{11}{16}$ INCH. LENGTH FROM B TO A, 12 INCHES.

No. 2, ...per pair, $1.35

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COACH MAIN FUTCHEL STAY.

No. 371.

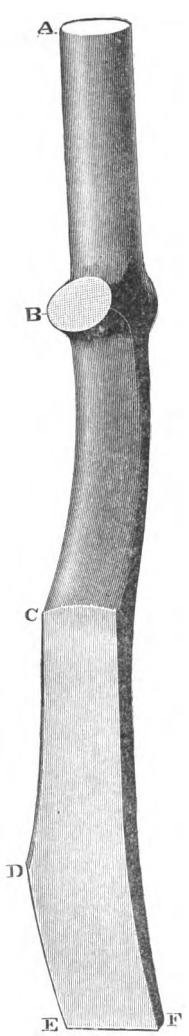


Fig. 18.

S

Trade Mark.



Fig. 19.

Forged from the Best Norway Iron.

SIZE OF OVAL AT A, $1\frac{1}{4}$ INCH BY $\frac{7}{8}$ INCH. LENGTH FROM A TO B. $4\frac{1}{2}$ INCHES. LENGTH FROM B TO C, $4\frac{3}{4}$ INCHES. LENGTH FROM C TO D, 4 INCHES. LENGTH FROM D TO E, 3 INCHES.

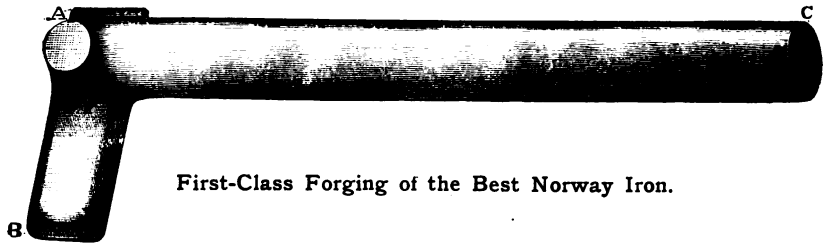
No. 2,.....per pair, $2.25

Digitized by Google

SPANNER IRON END.

No. 380.

L PATTERN.



First-Class Forging of the Best Norway Iron.

SIZE OF OVAL AT C 1¼ INCH BY ⅞ INCH. TOTAL LENGTH 14 INCHES.

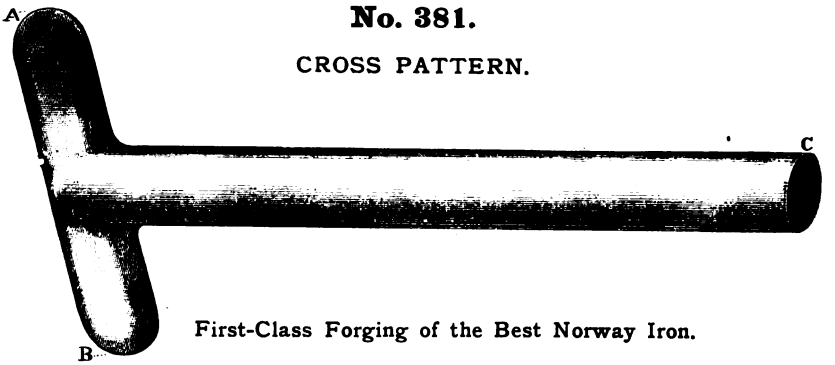
LENGTH FROM A TO B 3¾ INCHES.

L Pattern,.....per pair, $1.15

SPANNER IRON END.

No. 381.

CROSS PATTERN.



First-Class Forging of the Best Norway Iron.

SIZE OF OVAL AT C 1¼ INCH BY ⅞ INCH. TOTAL LENGTH 16 INCHES.

LENGTH OF CROSS PIECE FROM A TO B, 5½ INCHES.

Cross Pattern,.....per pair, $1.50

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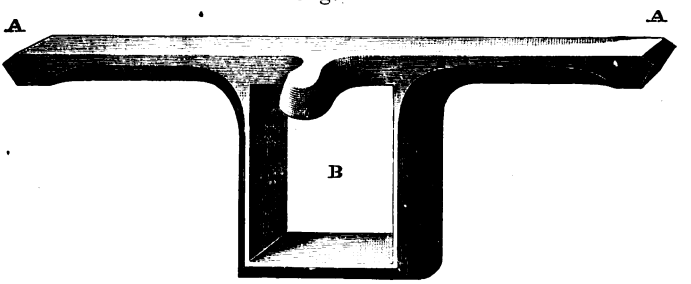
POLE HOLDER.

No. 385.

SQUARE PATTERN.

Trade Mark.

Fig. 21.



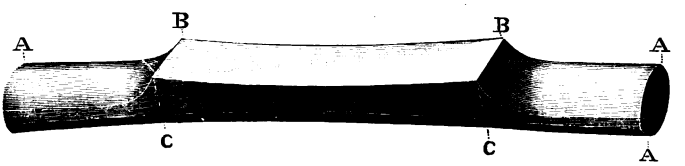
Forged from the Best Norway Iron.

INSIDE MEASUREMENT OF SQUARE B, $2\frac{3}{4}$ INCH BY $2\frac{3}{8}$ INCH.
SIZE OF OVAL AA, $1\frac{3}{8}$ INCH BY $\frac{9}{16}$ INCH.

No. 1,.....each, $1.50

SPANNER IRON CENTER.

No. 387.



Forged from the Best Norway Iron.

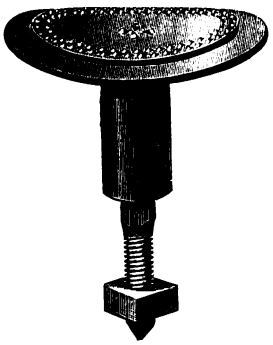
For $1\frac{1}{4}$ inch Spring,.....per pair, $0.85
" $1\frac{3}{8}$ " " ..... " " .90
" $1\frac{1}{2}$ " " ..... " " .95

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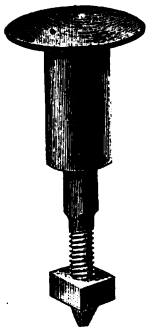
COACH TRACE BOLTS.

Trade Mark.

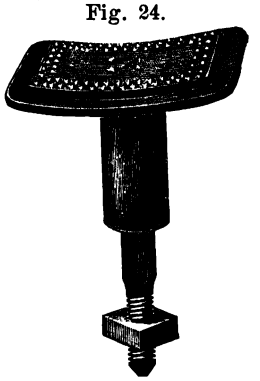
No. 390.
Oval Pattern.
Fig. 22.



No. 391.
Round Pattern.
Fig. 23.



No. 392.
Square Pattern.
Fig. 24.



PIPED AS ILLUSTRATED.

Be sure to give Length of Piping if wanted Piped.

Regular length of Piping, 2¼ inch. Other lengths when ordered.

WITH $\frac{7}{16}$ INCH SQUARE BOLT, 4½ INCHES LONG.

				Black.	Bright.
Oval Pattern,	Hand Ragged,	3⅞ by 2¾ inch,	per pair,	$1.20	$1.35
" "	"	4⅞ " 3⅝ "	" "	1.55	1.70
Square "	"	3½ " 2½ "	" "	1.20	1.35
Oval "	Plain,	3⅞ " 2¾ "	" "	.95	1.10
" "	"	4⅞ " 3⅝ "	" "	1.35	1.55
Square "	"	3½ " 2½ "	" "	.95	1.10
Round "	"	2¼ in. diameter,	" "		.70
" "	"	2¾ " "	" "		.90

Packed in paper boxes of four pairs each.

WITHOUT PIPING.

WITH $\frac{7}{16}$ INCH SQUARE BOLT, 4½ INCHES LONG.

				Black.	Bright.
Oval Pattern,	Hand Ragged,	3⅞ by 2¾ inch,	per pair,	$0.95	$1.10
" "	"	4⅞ " 3⅝ "	" "	1.30	1.45
Square "	"	3½ " 2½ "	" "	.95	1.10
Oval "	Plain,	3⅞ " 2¾ "	" "	.70	.85
" "	"	4⅞ " 3⅝ "	" "	1.10	1.30
Square "	"	3½ " 2½ "	" "	.70	.85
Round, "	"	2¼ in. diameter,	" "		.45
" "	"	2¾ " "	" "		.65

Packed in paper boxes of four pairs each.

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BREWSTER CO'S

COACH KING BOLT AND PLATES.

No. 400.

Trade Mark.

Fig. 1.

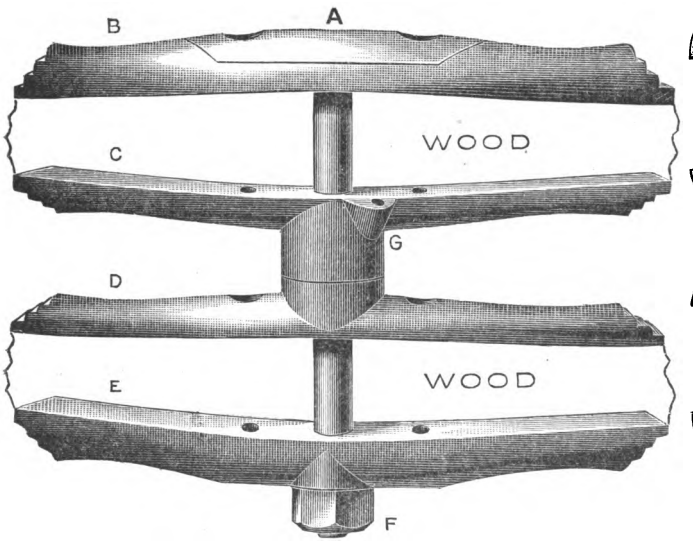
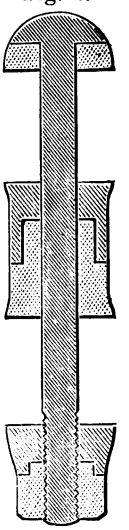


Fig. 2.



Section.

No. 2, complete as above,.....per set, $10.00

The above has a King Bolt $\frac{9}{16}$ inch diameter, and the plates, which measure $1\frac{5}{8}$ inch on the flat side, are formed on a circle of 30 inches diameter.

The socket G from the top of Plate C to the bottom of Plate D made to order in lengths from 2 inches to $2\frac{1}{2}$ inches.

They have all bearings milled to an accurate fit, are made of the best material for the purpose, and are in all respects of the best workmanship.

It is impossible to lose the King Bolt if the nut becomes lost, and in such case the King Bolt cannot rattle. The elongated head being recessed in the plate and securely held by the two bolts, it cannot possibly move, which prevents any wear at that point, as is the case with the older method. The method of recessing or inserting the head in the top plate makes a neat finish to the top bed. The double or encased socket relieves the King Bolt from wear. It being possible to oil this King Bolt, prevents creaking, and as a general result it adds excellence of finish, safety, and durability to all vehicles to which it is applied.

Digitized by Google

Socket Coach King Bolt Plates.

No. 401.

CIRCLE PATTERN.

Trade Mark.

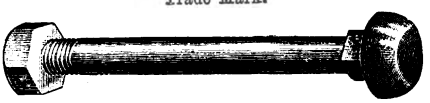
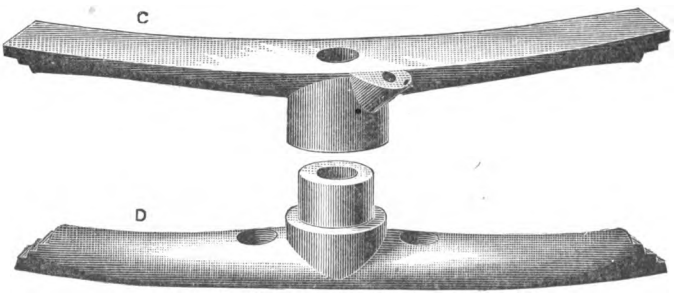


Fig. 3.



No. 2, With Milled Bolt, $\frac{9}{16}$ inch by 7 inches,.....per set, $5.00
" 2, Without Bolt,..... " " 4.50

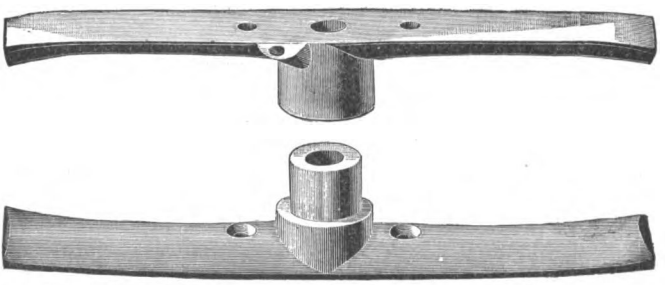
The Socket from the top of Plate C to the bottom of D is made to order in lengths from 2 inches to $2\frac{1}{2}$ inches.

The King Bolt is $\frac{9}{16}$ inch diameter, and the plates, which measure $1\frac{5}{8}$ inch on the flat side, are formed on a circle of 30 inches diameter.

No. 402.

STRAIGHT PATTERN.

Fig. 4.



No. 2, With Milled Bolt, $\frac{9}{16}$ inch by 7 inches,.....per set, $5.00
" 2, Without Bolt,..... " " 4.50

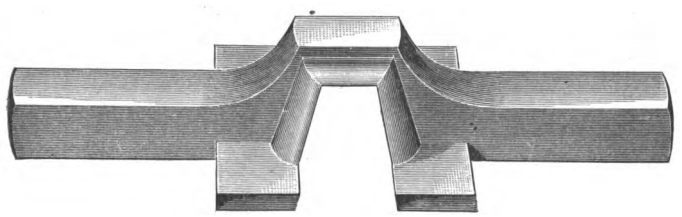
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FRENCH COACH CLIP.

No. 406.

DEEP PATTERN.

Trade Mark.



Forged Solid from One Piece of the Best Norway Iron.

		Bottom.	Top.	Depth.	Per Pair.
No. 1, for 2 inch Springs, Opening,		$1\frac{7}{8}$ inch,	$\frac{15}{16}$ inch,	$1\frac{3}{4}$ inch,	$5.00
" 2, " $1\frac{3}{4}$ "	" "	$1\frac{11}{16}$ "	$\frac{7}{8}$ "	$1\frac{5}{8}$ "	4.00
" 3, " $1\frac{1}{2}$ "	" "	$1\frac{9}{16}$ "	$\frac{3}{4}$ "	$1\frac{1}{2}$ "	3.25
" 4, " $1\frac{1}{4}$ "	" "	$1\frac{1}{2}$ "	$\frac{23}{32}$ "	$1\frac{3}{8}$ "	2.75

All the corners of the above forging will be found worked out to sharp, well-defined angles. They are designed for platform spring work.

OCTAGON AND FLAT PATTERNS, SHORT SPRING CLIPS DESIGNED FOR THE ABOVE, ON PAGES 148 AND 149.

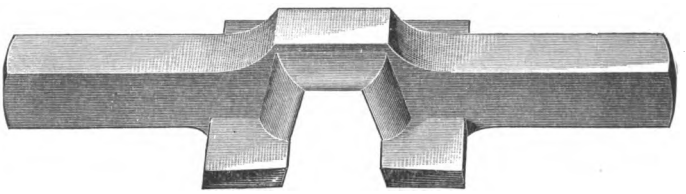
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FRENCH COACH CLIPS.

No. 407.

MEDIUM DEEP PATTERN.

Trade Mark.



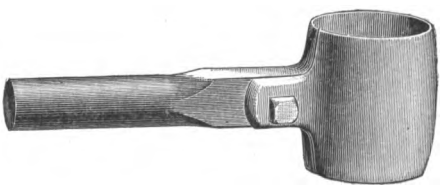
First-Class Forging of the Best Norway Iron.

		Bottom.	Top.	Depth.	Per Pair.
No. 2, for $1\frac{3}{4}$ inch Springs, Opening,		$1\frac{5}{8}$ in.,	$\frac{31}{32}$ in.,	$1\frac{1}{4}$ in.,	$4.00
" 3, " $1\frac{1}{2}$ "	"	"	$1\frac{7}{16}$ "	$\frac{13}{16}$ "	$1\frac{3}{16}$ "	3.25

The Medium Deep Pattern, has a deeper cut for wood than Shallow Pattern, page 142, but not so deep as Deep Pattern, on page 140, and is somewhat heavier.

SHORT SPRING CLIPS, DESIGNED FOR THE ABOVE, ON PAGES 148 AND 149.

COACH FORGED LAMP HOLDER.



No. 2, Socket, $1\frac{9}{32}$ inch, Diam. inside, $2\frac{1}{4}$ inch deep, per pair, $1.80

" 3, " $1\frac{23}{32}$ " " " $2\frac{1}{4}$ " " " " 1.80

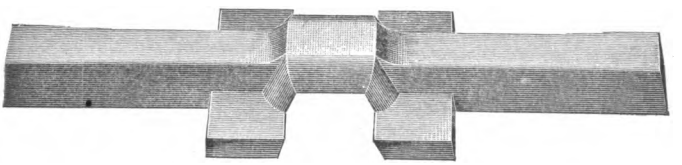
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FRENCH COACH CLIP.

No. 408.

SHALLOW PATTERN.

Trade Mark.



Forged Solid from One Piece of the Best Norway Iron.

		Bottom.	Top.	Depth.	Per Pair
No. 1,	for 2 inch Springs, Opening,	$1\frac{7}{8}$ in.,	$1\frac{1}{4}$ in.,	$\frac{7}{8}$ in.,	$5.00
" 2,	" $1\frac{3}{4}$ " " "	$1\frac{3}{4}$ "	$1\frac{1}{8}$ "	$\frac{3}{4}$ "	4.00
" 3,	" $1\frac{1}{2}$ " " "	$1\frac{5}{8}$ "	1 "	$\frac{11}{16}$ "	3.25
" 4,	" $1\frac{1}{4}$ " " "	$1\frac{1}{2}$ "	$\frac{15}{16}$ "	$\frac{5}{8}$ "	2.75

All the corners of the above forging will be found worked out to sharp well-defined angles. The above Clip differs from our French Coach Clip in that the depression between the lugs is about one-half the depth.

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GERMAN COACH CLIP.

No. 409.

Trade Mark.



Made of the Best Norway Iron.

			Bottom.	Depth.	Per Pair.
No. 2,	for $1\frac{3}{4}$ inch	Springs, opening	$1\frac{1}{2}$ inch,	$\frac{7}{8}$ inch,	$4.00
" $2\frac{1}{2}$,	" $1\frac{5}{8}$ "	"	"	$1\frac{1}{2}$ " $\frac{7}{8}$ "	4.00
" 3,	" $1\frac{1}{2}$ "	"	"	$1\frac{3}{8}$ " $\frac{11}{16}$ "	3.25
" $3\frac{1}{2}$,	" $1\frac{3}{8}$ "	"	"	$1\frac{3}{8}$ " $\frac{11}{16}$ "	3.25
" 4,	" $1\frac{1}{4}$ "	"	"	$1\frac{3}{8}$ " $\frac{11}{16}$ "	2.75

AMERICAN COACH CLIP.

No. 412.



Forged Solid from One Piece of the Best Norway Iron.

			Bottom.	Top.	Depth.	Per Pair.
No. $2\frac{1}{2}$,	for $1\frac{5}{8}$ inch	Springs, opening	$1\frac{3}{16}$ inch,	1 inch,	$\frac{9}{16}$ inch,	$4.00
" 3,	" $1\frac{1}{2}$ "	"	"	$1\frac{1}{8}$ " $\frac{15}{16}$ "	$\frac{1}{2}$ "	3.25
" 4,	" $1\frac{1}{4}$ "	"	"	1 " $\frac{3}{4}$ "	$\frac{13}{32}$ "	2.75

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SMITH'S COACH AXLE CLIPS.

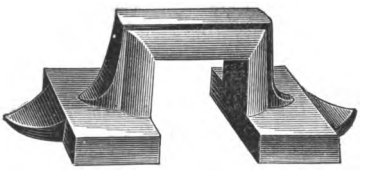
No. 415.

SMITH'S PATTERN.

DESIGNED TO MATCH OUR FRENCH COACH CLIP.



Trade Mark.



A Set consists of Four Clips.

First-class Forging of the Best Norway Iron.

		Per Set.
No. 00, for $1\frac{3}{4}$ inch Axle, and $2\frac{1}{2}$ or 3 inch Spring,	.....	$10.00
" 0, " $1\frac{5}{8}$ " " " 2 " $2\frac{1}{4}$ " "	.....	7.00
" 1, " $1\frac{1}{2}$ " " " $1\frac{3}{4}$ " 2 " "	.....	5.00
" $1\frac{1}{2}$, " $1\frac{7}{16}$ " " " $1\frac{3}{4}$ " 2 " "	.....	5.00
" 2, " $1\frac{3}{8}$ " " " $1\frac{1}{2}$ " $1\frac{3}{4}$ " "	.....	4.00
" $2\frac{1}{2}$, " $1\frac{6}{16}$ " " " $1\frac{1}{4}$ " $1\frac{1}{2}$ " "	.....	4.00
" 3, " $1\frac{1}{4}$ " " " $1\frac{1}{4}$, $1\frac{3}{8}$, or $1\frac{1}{2}$ inch Spring,	.....	3.50
" $3\frac{1}{2}$, " $1\frac{5}{16}$ " " " $1\frac{1}{4}$, $1\frac{3}{8}$, " $1\frac{1}{2}$ " "	.....	3.50
" 4, " $1\frac{1}{8}$ " " " $1\frac{1}{4}$ or $1\frac{1}{2}$ inch Spring,	.....	3.00
" $4\frac{1}{2}$, " $1\frac{1}{16}$ " " " $1\frac{1}{4}$ " $1\frac{1}{2}$ " "	.....	3.00
" 5, " 1 " " " $1\frac{1}{4}$ " "	.....	2.75
" $5\frac{1}{2}$, " $\frac{15}{16}$ " " " $1\frac{1}{4}$ " "	.....	2.75

SHORT SPRING CLIPS, DESIGNED FOR THE ABOVE, SEE PAGES 148 AND 149.

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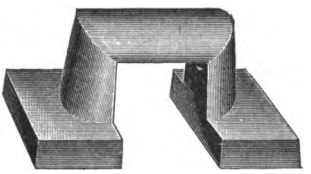
"ANVIL" COACH AXLE CLIPS.

No. 416.

OVAL PATTERN.



Trade Mark.



A Set consists of Four Clips.

	Per Set.
No. 1, for 1½ inch Axle, and 1¾ or 2 inch Spring,	$5.00
" 1½, " 1 7/16 " " " 1¾ " 2 " "	5.00
" 2, " 1⅞ " " " 1½ " 1¾ " "	4.00
" 2½, " 1 5/16 " " " 1¼ " 1½ " "	4.00
" 3, " 1¼ " " " 1¼, 1⅞ or 1½ inch Spring,	3.50
" 3½, " 1 3/16 " " " 1¼, 1⅞ " 1½ " "	3.50
" 4, " 1⅛ " " " 1¼ or 1½ inch Spring,	3.00
" 4½, " 1 1/16 " " " 1¼ " 1½ " "	3.00
" 5, " 1 " " " 1¼ " "	2.75
" 5½, " 15/16 " " " 1¼ " "	2.75

The above Clip is a good forging for the price, made of stiff material, of a plain smooth pattern, that can be easily finished.

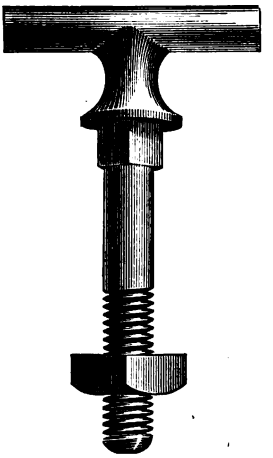
SHORT SPRING CLIPS, DESIGNED FOR THE ABOVE, SEE PAGES 148 AND 149.

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SHAFT STOP BOLT.

No. 420.

Trade Mark.



Bolt Part, $2\frac{1}{2}$ by $\frac{3}{8}$ inch,.....per dozen, $2.50

Put up in paper boxes of three dozen each.

The above Shaft Stop Bolt is for use near the end of the shaft to a coupé, to prevent the shafts, when raised, from falling back.

COACH COCK EYE BOLT.

No. 421.



Cock Eye Bolt, $3\frac{1}{2}$ by $\frac{3}{8}$ inches,.....per dozen, $2.00
" " " $3\frac{1}{2}$ " $\frac{7}{16}$ " ..... " " 2.00

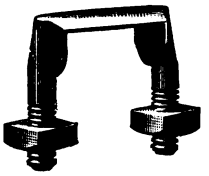
Packed in paper boxes, two dozen each.

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SHORT SPRING CLIP.

No. 425.

"ANVIL" LIGHT OVAL PATTERN.







Trade Mark.

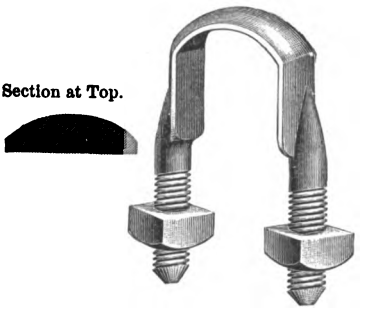
									Per Dozen.
For	3	leaf,	$\frac{7}{8}$	inch	Spring,	Shank $\frac{5}{16}$	inch,	Flat part, $\frac{3}{4}$ inch,	$1.50
"	3	"	1	"	"	" $\frac{5}{16}$	"	" $\frac{11}{16}$ "	1.50
"	4	"	1	"	"	" $\frac{5}{16}$	"	" $\frac{15}{16}$ "	1.50
"	2	"	$1\frac{1}{8}$	"	"	" $\frac{5}{16}$	"	" $\frac{1}{2}$ "	1.50
"	3	"	$1\frac{1}{8}$	"	"	" $\frac{5}{16}$	"	" $\frac{3}{4}$ "	1.50
"	4	"	$1\frac{1}{8}$	"	"	" $\frac{5}{16}$	"	" $\frac{7}{8}$ "	1.50
"	2	"	$1\frac{1}{4}$	"	"	" $\frac{5}{16}$	"	" $\frac{1}{2}$ "	1.50
"	3	"	$1\frac{1}{4}$	"	"	" $\frac{5}{16}$	"	" $\frac{3}{4}$ "	1.50
"	4	"	$1\frac{1}{4}$	"	"	" $\frac{5}{16}$	"	" $\frac{7}{8}$ "	1.50
"	5	"	$1\frac{1}{4}$	"	"	" $\frac{3}{8}$	"	" $1\frac{1}{4}$ "	2.00
"	3	"	$1\frac{3}{8}$	"	"	" $\frac{3}{8}$	"	" $\frac{3}{4}$ "	2.00
"	4	"	$1\frac{3}{8}$	"	"	" $\frac{3}{8}$	"	" $\frac{7}{8}$ "	2.00

Those who wish a light Clip will find the above a strong Clip for one of its weight.

Round Top Clip.

No. 426.

Section at Top.

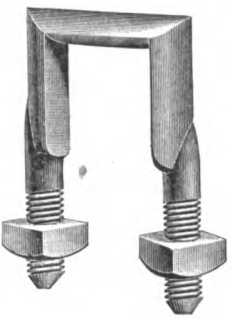


$1\frac{1}{4}$ inch,.....per dozen, $2.00

Between Clips $1\frac{1}{4}$ inch.
Upright part of flat 1 inch.
Flat from round to round $3\frac{3}{8}$ inch.
Shank $\frac{3}{8}$ inch by $1\frac{1}{8}$ inch.

Oval Top Clip.

No. 427.



Section at Top.



$1\frac{1}{4}$ inch,.....per dozen, $2.00

Flat part, $1\frac{1}{4}$ inch.

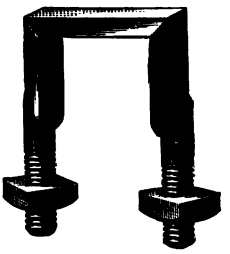
Shank, $1\frac{5}{8}$ inch by $\frac{3}{8}$ inch.

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SMITH'S SHORT SPRING CLIPS.

No. 428.

FLAT PATTERN.



Trade Mark.

DESIGNED FOR USE WITH CLIPS ON PAGES 140, 141, 142, 144, AND 145.

For	3	leaf,	1	inch	Spring,	Shank	$\frac{5}{16}$	inch,	Flat	Part	$\frac{11}{16}$	inch,	$1.50
"	4	"	$1\frac{1}{8}$	"		"	$\frac{5}{16}$	"	"	"	$\frac{7}{8}$	"	1.50
"	2	"	$1\frac{1}{4}$	"	"	"	$\frac{5}{16}$	"	"	"	$\frac{7}{16}$	"	1.75
"	3	"	$1\frac{1}{4}$	"	"	"	$\frac{5}{16}$	"	"	"	$\frac{11}{16}$	"	1.75
"	4	"	$1\frac{1}{4}$	"	"	"	$\frac{5}{16}$	"	"	"	$\frac{15}{16}$	"	1.75
"	2	"	$1\frac{1}{4}$	"	"	"	$\frac{3}{8}$	"	"	"	$\frac{7}{16}$	"	2.00
"	3	"	$1\frac{1}{4}$	"	"	"	$\frac{3}{8}$	"	"	"	$\frac{11}{16}$	"	2.00
"	4	"	$1\frac{1}{4}$	"	"	"	$\frac{3}{8}$	"	"	"	$\frac{15}{16}$	"	2.00
"	5	"	$1\frac{1}{4}$	"	"	"	$\frac{3}{8}$	"	"	"	$1\frac{3}{16}$	"	2.00
"	3	"	$1\frac{3}{8}$	"	"	"	$\frac{3}{8}$	"	"	"	$\frac{11}{16}$	"	2.00
"	4	"	$1\frac{3}{8}$	"	"	"	$\frac{3}{8}$	"	"	"	$\frac{15}{16}$	"	2.00
"	5	"	$1\frac{3}{8}$	"	"	"	$\frac{3}{8}$	"	"	"	$1\frac{3}{16}$	"	2.00
"	3	"	$1\frac{1}{2}$	"	"	"	$\frac{3}{8}$	"	"	"	$\frac{11}{16}$	"	2.00
"	4	"	$1\frac{1}{2}$	"	"	"	$\frac{3}{8}$	"	"	"	$\frac{15}{16}$	"	2.00
"	5	"	$1\frac{1}{2}$	"	"	"	$\frac{3}{8}$	"	"	"	$1\frac{3}{16}$	"	2.00
"	5	"	$1\frac{1}{2}$	"	"	"	$\frac{7}{16}$	"	"	"	$1\frac{3}{16}$	"	2.25
"	6	"	$1\frac{1}{2}$	"	"	"	$\frac{7}{16}$	"	"	"	$1\frac{7}{16}$	"	2.25
"	4	"	$1\frac{5}{8}$	"	"	"	$\frac{7}{16}$	"	"	"	$\frac{15}{16}$	"	2.25
"	5	"	$1\frac{5}{8}$	"	"	"	$\frac{7}{16}$	"	"	"	$1\frac{3}{16}$	"	2.25
"	6	"	$1\frac{5}{8}$	"	"	"	$\frac{7}{16}$	"	"	"	$1\frac{7}{16}$	"	2.25
"	4	"	$1\frac{3}{4}$	"	"	"	$\frac{7}{16}$	"	"	"	$\frac{15}{16}$	"	2.25
"	5	"	$1\frac{3}{4}$	"	"	"	$\frac{7}{16}$	"	"	"	$1\frac{3}{16}$	"	2.25
"	6	"	$1\frac{3}{4}$	"	"	"	$\frac{7}{16}$	"	"	"	$1\frac{7}{16}$	"	2.25
"	7	"	$1\frac{3}{4}$	"	"	"	$\frac{7}{16}$	"	"	"	$1\frac{11}{16}$	"	2.25
"	6	"	2	"	"	"	$\frac{7}{16}$	"	"	"	$1\frac{7}{16}$	"	2.25
"	7	"	2	"	"	"	$\frac{7}{16}$	"	"	"	$1\frac{11}{16}$	"	2.50

Put up in boxes of two dozen each.

The above Clips are forged from the best Norway Iron, and the corners are worked out to sharp, well-defined angles, and are of a smooth black finish.

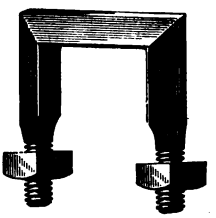
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SMITH'S SHORT SPRING CLIPS.

No. 429.

OCTAGON PATTERN.

Trade Mark.



DESIGNED FOR USE WITH CLIPS ON PAGES 140, 141, 142, 144, AND 145.

												Per Dozen.
For	3	leaf,	1	in.	Spring,	Shank	5-16	in.	Dia.,	Flat part,	$\frac{11}{16}$ in.,	$1.50
"	4	"	$1\frac{1}{8}$	"	"	"	5-16	"	"	"	" $\frac{15}{16}$ "	1.50
"	2	"	$1\frac{1}{4}$	"	"	"	5-16	"	"	"	" $\frac{7}{16}$ "	1.75
"	3	"	$1\frac{1}{4}$	"	"	"	5-16	"	"	"	" $\frac{11}{16}$ "	1.75
"	4	"	$1\frac{1}{4}$	"	"	"	5-16	"	"	"	" $\frac{15}{16}$ "	1.75
"	5	"	$1\frac{1}{4}$	"	"	"	3-8	"	"	"	" $1\frac{3}{16}$ "	2.00
"	4	"	$1\frac{1}{4}$	"	"	"	3-8	"	"	"	" $\frac{15}{16}$ "	2.00
"	3	"	$1\frac{3}{8}$	"	"	"	3-8	"	"	"	" $\frac{11}{16}$ "	2.00
"	4	"	$1\frac{3}{8}$	"	"	"	3-8	"	"	"	" $\frac{15}{16}$ "	2.00
"	3	"	$1\frac{1}{2}$	"	"	"	3-8	"	"	"	" $\frac{11}{16}$ "	2.00
"	4	"	$1\frac{1}{2}$	"	"	"	3-8	"	"	"	" $\frac{15}{16}$ "	2.00
"	5	"	$1\frac{1}{2}$	"	"	"	3-8	"	"	"	" $1\frac{3}{16}$ "	2.00
"	5	"	$1\frac{1}{2}$	"	"	"	7-16	"	"	"	" $1\frac{3}{16}$ "	2.25
"	5	"	$1\frac{5}{8}$	"	"	"	7-16	"	"	"	" $1\frac{3}{16}$ "	2.25
"	6	"	$1\frac{5}{8}$	"	"	"	7-16	"	"	"	" $1\frac{7}{16}$ "	2.25
"	4	"	$1\frac{3}{4}$	"	"	"	7-16	"	"	"	" $\frac{15}{16}$ "	2.25
"	5	"	$1\frac{3}{4}$	"	"	"	7-16	"	"	"	" $1\frac{3}{16}$ "	2.25
"	6	"	$1\frac{3}{4}$	"	"	"	7-16	"	"	"	" $1\frac{7}{16}$ "	2.25
"	7	"	$1\frac{3}{4}$	"	"	"	7-16	"	"	"	" $1\frac{11}{16}$ "	2.25
"	8	"	$1\frac{3}{4}$	"	"	"	7-16	"	"	"	" $1\frac{15}{16}$ "	2.25
"	11	"	$1\frac{3}{4}$	"	"	"	7-16	"	"	"	" $2\frac{11}{16}$ "	2.50

Special lengths made to order of this pattern when sufficient quantities are wanted.

Put up in paper boxes of two dozen each.

The above Clips are forged from the best Norway Iron, and the corners are all worked out to sharp, well-defined angles. They are polished ready for painting, and are of a design that will make a good finish.

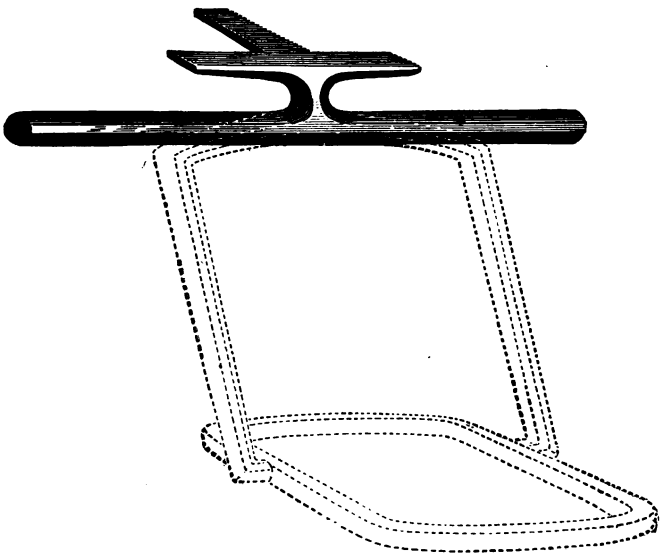
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STEP HEADS.

No. 435.

COACH PATTERN.

Trade Mark.



List Price,.....per pair, $3.00

Designed for use of coachmakers in making Steps which are supported from the sides, to bend down as per dotted lines, or in any other form desired for connection with the step.

They are made from the best Norway Iron, and are a first-class forging in every respect.

POLE PINS.

No. 386.



List Price,.....per dozen, $1.50

Diameter of Pin ½ inch, length under the head, exclusive of the point, 3¼ inches. Special lengths made to order for lots of 8 or more dozen.

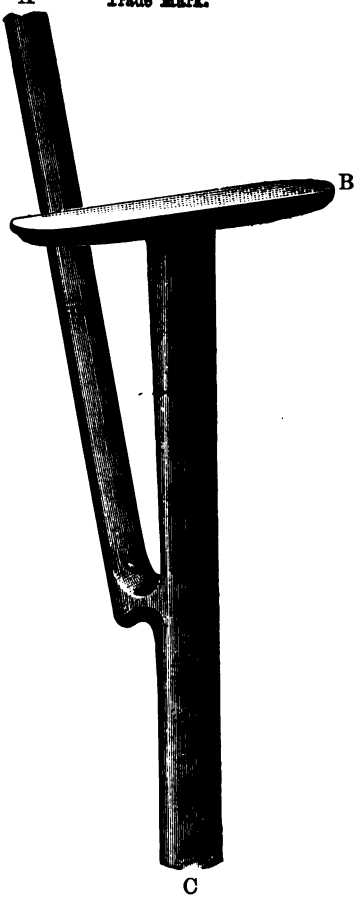
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CABRIOLET STEP HEADS.

No. 438.

S

Trade Mark.



Cabriolet Step Heads,.....per pair, $4.00

Part A, $1\frac{1}{16}$ **inch by** $\frac{7}{16}$ **inch, of oval form.**

Part B, $6\frac{1}{4}$ **inches long,** $1\frac{5}{8}$ **inches wide.**

Part C, $1\frac{1}{8}$ **by** $\frac{3}{4}$ **inch, oval above the brace, and 1 inch round below the brace.**

Made of the best Norway Iron, and are of the best workmanship.

Digitized by Google

STEP COVER FEET.

No. 439.

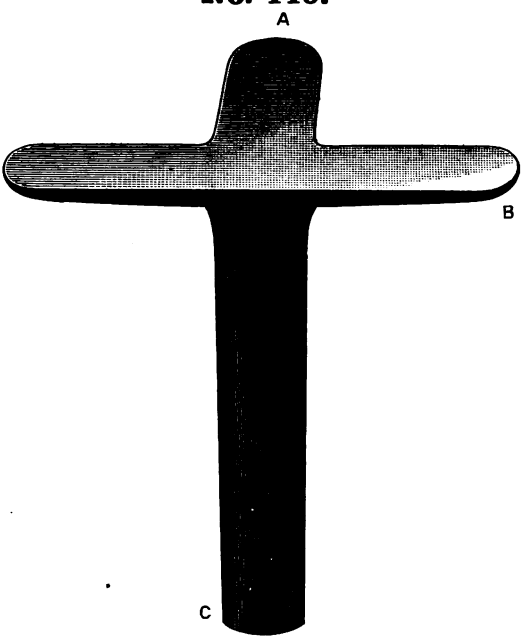


Step Cover Feet,.....per pair, $0.50

Designed to weld to part B of Step Cover Heads shown on page 153.

COUPÉ STEP HEAD.

No. 440.



Coupé Step Heads,.....per pair, $2.00

Part A, $1\frac{5}{8}$ inch wide, 6 inches long.
Part B, $1\frac{5}{8}$ inch wide, 8 inches long.
Part C, of Oval form, is $1\frac{3}{8}$ inch by $\frac{13}{16}$ inch.

They are made of the best Norway Iron, and in all respects a first-class forging.

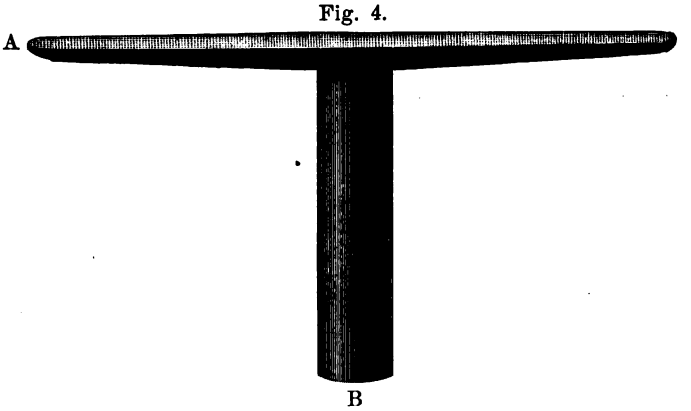
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STEP COVER HEAD.

No 441.

Trade Mark.

Fig. 4.

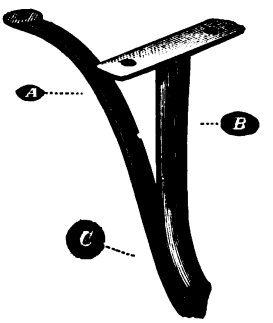


Step Cover Heads,.....per pair, $1.25

Part A, 10 inches long and $1\frac{5}{8}$ inches wide at the center.
Part B, which is of oval form, is $1\frac{1}{8}$ inch by $\frac{11}{16}$ inch.
They are a smooth, first-class forging, made of the best Norway Iron.

Light Carriage Body Step Heads.

No. 442.



Section at A, $\frac{1}{2}$ by $\frac{5}{16}$ inches. Section at B, $\frac{3}{4}$ by $\frac{7}{16}$ inches.
Section at C, $\frac{11}{16}$ inches.
Made of the best Norway Iron, with wide side of Oval parallel with the side of carriage body.

No 1,.....per pair, $0.85

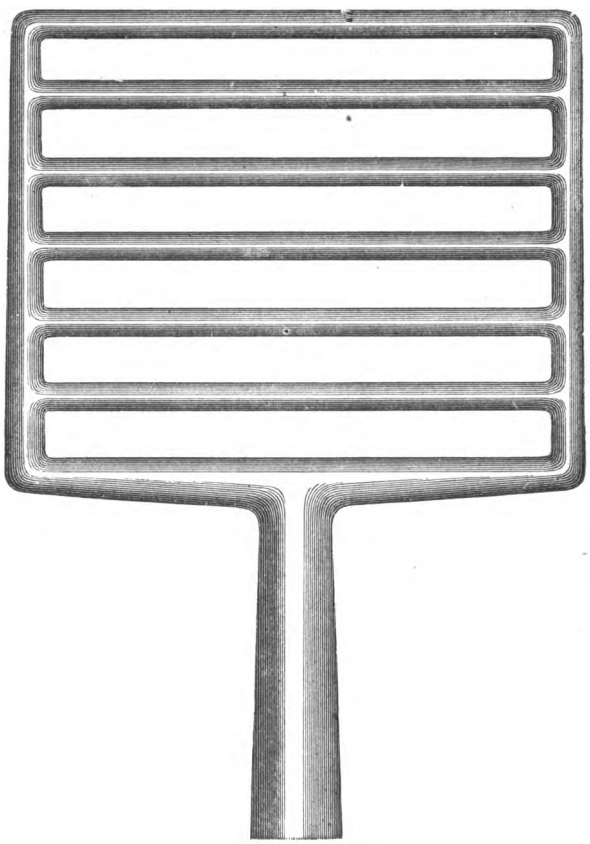
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COACH GRIDIRON STEPS.

No. 450.

SQUARE ELLIPTIC BAR PATTERN.

Trade Mark.



Forged Solid from One Piece of the Best Norway Iron.

No.	00,	3½	inch	by	3½	inch,	.....	per pair,	$1.50
"	0,	4¼	"	"	4¼	"	.....	" "	2.00
"	1,	6	"	"	5	"	.....	" "	3.25
"	1,	7	"	"	6	"	.....	" "	4.00

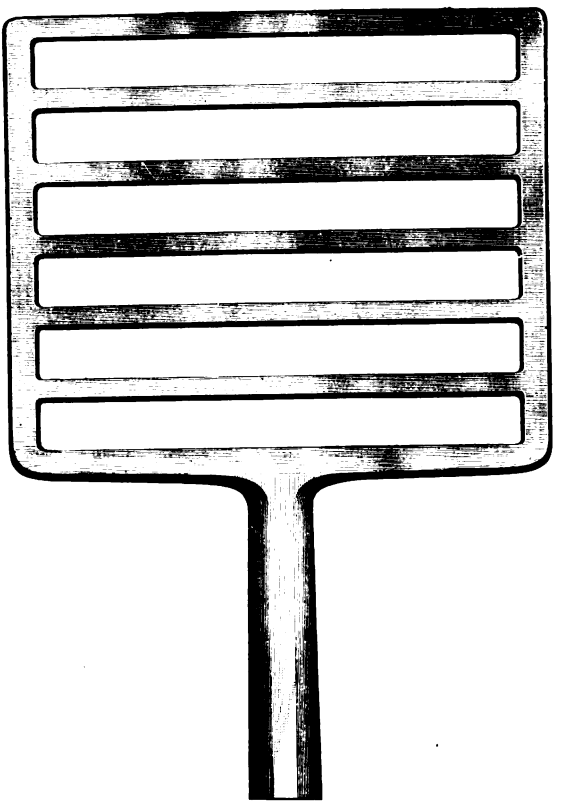
Digitized by Google

COACH GRIDIRON STEPS.

No. 452.

[SQUARE FLAT BAR PATTERN.

Trade Mark.



Forged Solid from One Piece of the Best Norway Iron.

No.	00,	3½	inch	by 3½	inch,	per pair,	$1.50
"	0,	4½	"	" 4½	"	" "	2.00
"	1,	6	"	" 5	"	" "	3.25
"	2,	7	"	" 6	"	" "	4.00

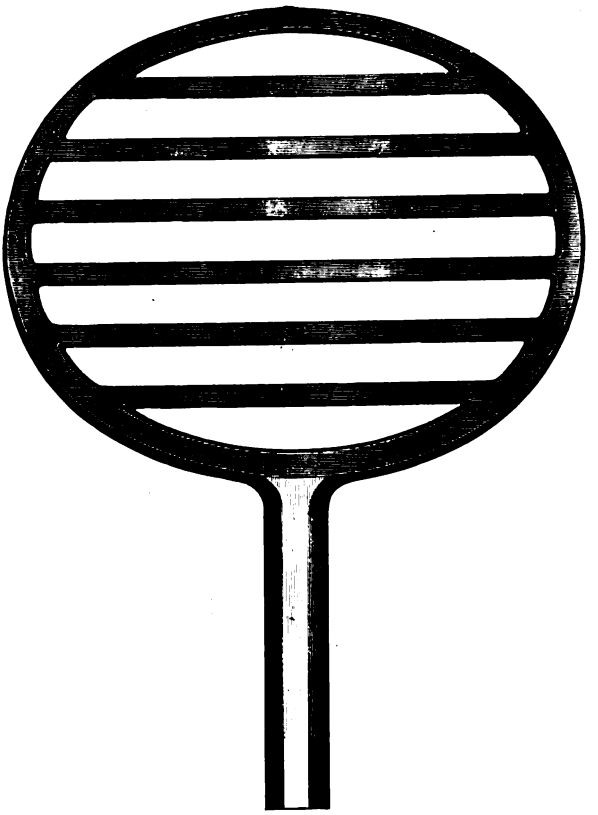
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COACH GRIDIRON STEPS.

No. 454.

OVAL FLAT BAR PATTERN.

Trade Mark.



Forged Solid from One Piece of the Best Norway Iron.

No. 1,	Bar,	6¼	inch by	5	inch,	per pair,	$3.25
" 2,	"	7	" "	5½	"	" "	4.00
" 3,	"	7½	" "	6	"	" "	4.50
" 1,	"	6¼	" "	5	" Shank Parallel with Bars,	" "	3.25

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BRACE BODY-STEPS.

No. 460.

PANEL PATTERN.

Trade Mark.



7 inch Drop and 6 inch Projection.

The Drop is the measurement from the top of the front of the T, in a perpendicular line to the level of the Pad ; and the Projection is the measurement from said perpendicular line to the front of the Pad.

Section at A, $\frac{1}{2}$ by $\frac{5}{16}$ inch; Section at B, $\frac{3}{4}$ by $\frac{7}{16}$ inch; Section at C, $\frac{11}{16}$ inch.

No. 0, Panel Pattern Steps,.....per pair, $1.60
" 1, " " " ..... " " 1.80

The Step Head is made of the best Norway Iron, and the Step Pad of a good, stiff material, suitable for the purpose.

Made with Oval Shank, having the wide side of Oval parallel with the side of the carriage body.

Is a first-class Step in all respects, and will give good satisfaction to makers of fine carriages.

Other patterns of Steps, and other Drops and Projections made to order when sufficient quantities are wanted. Prices given on application.

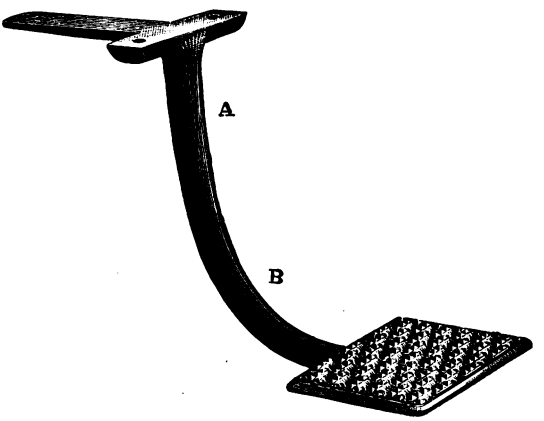
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BREWSTER BODY STEPS.

No. 461.

SQUARE WAVE PATTERN.

Trade Mark.



FOR BUGGIES.

Drop 7 Inches. Projection, 6 Inches.

The Drop is the measurement from the top of the front of the T, in a perpendicular line to the level of the Pad; and the Projection is the measurement from said perpendicular line to the front of the Pad.

No. 0, Wave Pattern Pads,.....per pair, $1.40
" 1, " " " ..... " " 1.50
" 2, " " " ..... " " 1.70

FOR SURREYS.

Drop 9½ *Inches. Projection* 10½ *Inches.*

No. 2, Wave Pattern Step,.....per pair, $1.90

Other patterns of Steps, and other Drops and Projections made to order when sufficient quantities are wanted. Prices given on application.

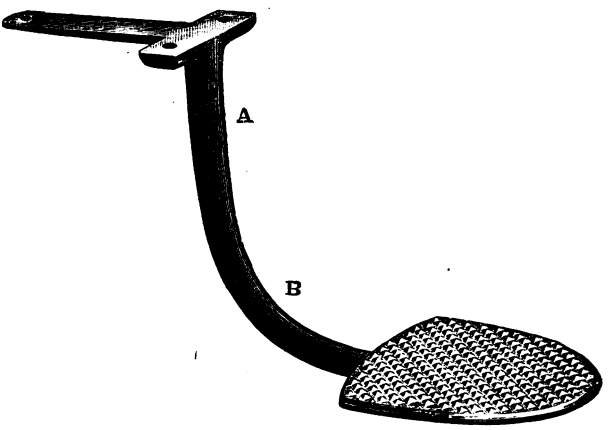
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BREWSTER BODY STEP.

No. 465.

D PYRAMID PATTERN.

Trade Mark.



FOR BUGGIES.

Drop 7 Inches. Projection 6 Inches.

The Drop is the measurement from the top of the front of the T, in a perpendicular line to the level of the Pad; and the Projection, the measurement from said perpendicular line to the front of the Pad.

No. 0. D Pyramid Pattern,.....per pair, $1.50
" 1. " " " ..... " " 1.70

FOR SURREYS.

Drop 9½ Inches. Projection 10½ Inches.

No. 2. D Pyramid Pattern,.....per pair, $1.90

Other patterns of Steps, and other Drops and Projections made to order when sufficient quantities are wanted. Prices given on application.

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BREWSTER BODY STEPS.

No. 467.

ROUND DIAMOND PATTERN.

Trade Mark.



FOR BUGGIES.

Drop 7 Inches. Projection 6 Inches.

The Drop is the measurement from the top of the front of the T, in a perpendicular line to the level of the Pad; and the Projection is the measurement from said perpendicular line to the front of the Pad.

No. 0. Round Diamond Pattern,.....per pair, $1.50
" 1. " " " ..... " " 1.70

FOR SURREYS.

Drop 9½ *Inches. Projection* 10½ *Inches.*

No. 2. Round Diamond Pattern,.....per pair, $1.90

Other patterns of Steps, and other Drops and Projections made to order when sufficient quantities are wanted. Prices given on application.

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BREWSTER BODY STEP

No. 469.

OVAL EMBOSSED PATTERN.

Trade Mark.



Drop 7 Inches. Projection 6 Inches.

The Drop is the measurement from the top of the front of the T, in a perpendicular line to the level of the Pad; and the Projection is the measurement from said perpendicular line to the front of the Pad.

No. 1. Oval Embossed Pattern,..... ....per pair, $1.60
" 2. " " " ..... " " 1.90

Other patterns of Steps, and other Drops and Projections made to order when wanted in sufficient quantities. Prices given on application.

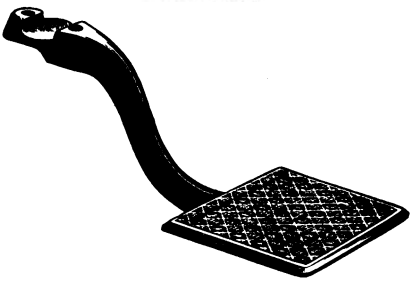
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SQUARE EMBOSSED AXLE STEP.

No. 471.

NETTED PATTERN.

Trade Mark.



The above cut represents a Step with 2½ inch Drop.

MADE WITH 2½ INCH AND 4½ INCH RISE OR 2½ INCH DROP.

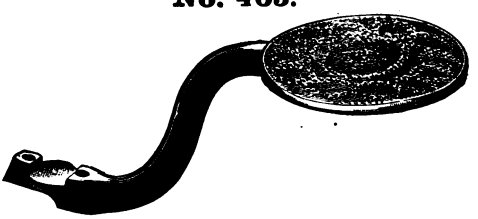
Made for 1 inch, 1 1-16 inch, 1 1-8 inch, 1 3-16 inch, 1 1-4 inch, 1 5-16 inch, and 1 3-8 inch Axles.

No. 1. Step 3¾ inch by 4 inch, with ⅜ inch holes, ... per pair, $1.20
" 2. " 3¾ " " 4¾ " " ⅜ " " . . . . " " 1.30

Have a wide bearing on the axle, and the shoulders which relieve the Shaft Coupling from strain are milled to an exact fit for axles as above. *One inch heavy, 1⅛ inch and 1¼ inch Axle Step Shaft Couplings* made expressly for these Steps, with finished Clips that have extra long ⅜ inch Shanks.

OVAL EMBOSSED AXLE STEPS.

No. 463.



The above represents a Step with 4½ inch Rise.

MADE WITH 2½ INCH DROP, AND 2½ INCH OR 4½ INCH RISE.

Made for 1 inch, 1 1-16 inch, 1 1-8 inch, 1 3-16 inch, 1 1-4 inch, 1 5-16 inch, and 1 3-8 inch Axles.

No. 1. Step 3⅜ inch by 4½ inch, with ⅜ inch holes, . . . per pair, $1.20
" 2. " 4½ " " 6 " " ⅜ " " . . . " " 1.30

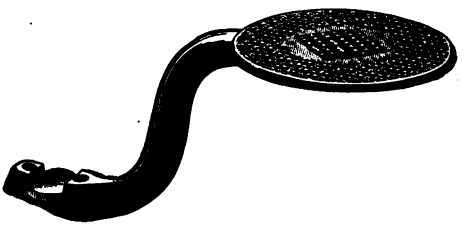
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ROUND EMBOSSED AXLE STEP.

No. 466.

DIAMOND PATTERN.

Trade Mark.



The above represents a Step with 4½ inch Rise.

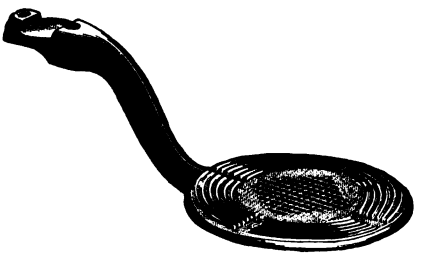
MADE WITH 2⅛ INCH DROP, AND 2½ INCH OR 4½ INCH RISE.

Made for 1 inch, 1 1-16 inch, 1 1-8 inch, 1 3-16 inch, 1 1-4 inch, 1 5-16 inch, and 1 3-8 inch Axles.

No. 0. Step 4½ inch diameter, with ⅜ inch holes,....per pair, $1.20
" 1. " 5 " " " ⅜ " " .... " " 1.30

No. 469.

QUARTERED PATTERN.



The above represents a Step with 2⅛ inch Drop.

MADE WITH 4½ INCH AND 2½ INCH RISE, AND 2⅛ INCH DROP.

Made for 1 inch, 1 1-16 inch, 1 1-8 inch, 1 3-16 inch, 1 1-14 inch, 1 5-16 inch, and 1 3-8 inch Axles.

No. 0. Step 4½ inch diameter, ⅜ inch holes,.....per pair, $1.20
" 1. " 5 " " ⅜ " " ..... " " 1.30

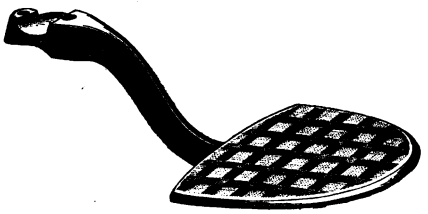
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D. EMBOSSED AXLE STEP.

No. 472.

PLAID PATTERN.

Trade Mark.



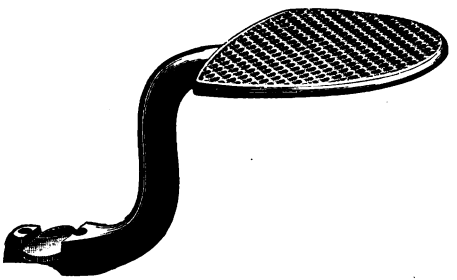
The above represents a Step with 2½ inch Drop.

MADE WITH 4½ INCH AND 2⅜ INCH RISE, OR 2½ INCH DROP.

No. 0. Step 4¼ inch by 4⅝ inch, with ⅜ inch holes,...per pair, $1.20
" 1. " 4¾ " " 5 " " ⅜ " " ... " " 1.30

No. 475.

PYRAMID PATTERN.



The above represents a Step with 4½ inch Rise.

MADE WITH 2⅜ INCH DROP, AND 2⅜ INCH OR 4½ INCH RISE.

Made for 1 inch, 1 1-16 inch, 1 1-8 inch, 1 3-16 inch, 1 1-4 inch, 1 5-16 inch, and 1 3-8 inch Axles.

No. 0. Step 4¼ inch by 4⅝ inch, with ⅜ inch holes,...per pair, $1.20
" 1. " 4¾ " " 5 " " ⅜ " " ... " " 1.30

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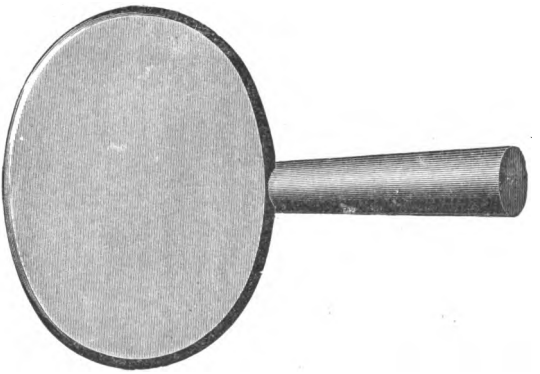
"ANVIL" PLAIN STEP PADS.

No. 480.

OVAL PATTERN.



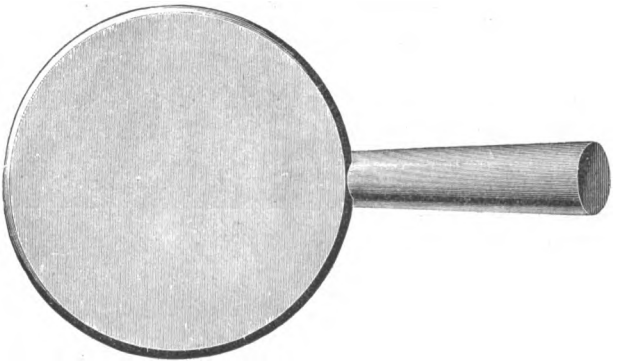
Trade Mark.



No.	0,	2⅞	inch by	3¾	inch,	per dozen pairs,			$5.00
"	1,	3⅜	" "	4½	"	" " "			7.00
"	2,	4½	" "	6	"	" " "			11.00

No. 481.

ROUND PATTERN.



No.	00,	4	inch	diameter,		per dozen pairs,			$4.50
"	0,	4½	"	"		" " "			5.00
"	1,	5	"	"		" " "			7.00
"	1½,	5½	"	"		" " "			10.50
"	2,	6	"	"		" " "			13.50

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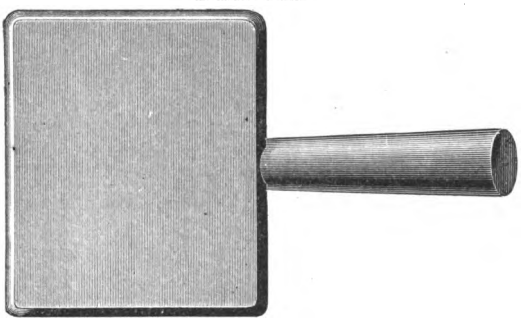
PLAIN STEP PADS.

No. 483.

SQUARE PATTERN.



Trade Mark.

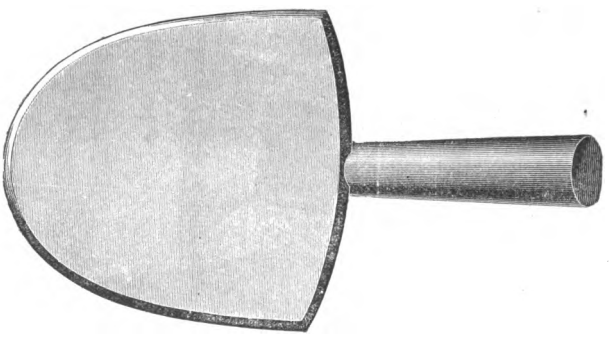


			Norway Iron.	Refined Iron.
No. 0,	3½ inch by 3½ inch,	per dozen pairs,	$5.00	$4.00
" 1,	3⅝ " " 4 "	" " "	6.00	4.50
" 2,	3¾ " " 4½ "	" " "	8.00	6.50
" 3,	4½ " " 5½ "	" " "	11.00	9.50

"ANVIL" PLAIN STEP PADS.

No. 485.

D PATTERN.



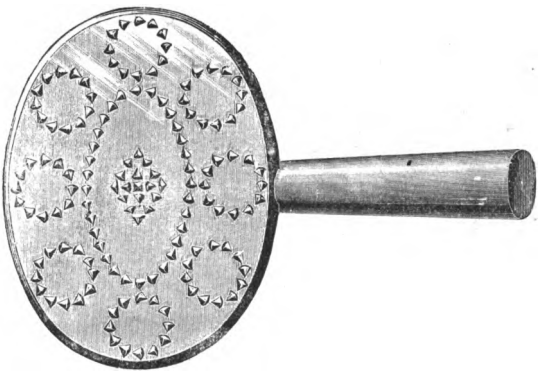
No. 0,	4⅝ inch by 4¼ inch,	per dozen pairs,	$5.00
" 1,	5 " " 4¾ "	" " "	6.50
" 2,	5⅝ " " 5⅜ "	" " "	10.50
" 3,	6⅛ " " 6 "	" " "	13.50

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Anvil Oval Embossed Step Pads.

No. 587.

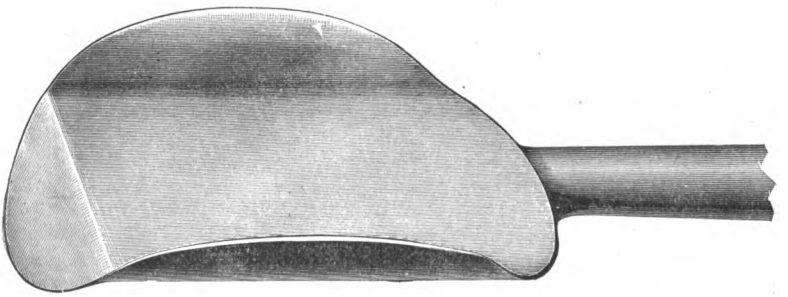




No. 1,.....$3\frac{3}{8}$ inch by $4\frac{1}{2}$ inch,.....per dozen pairs, $6.50
" 2,.....$4\frac{1}{2}$ " " 6 " ..... " " " 9.00

EXPRESS WAGON STEP PADS.

No. 487.



Per Dozen Pairs.

No. 1,...size of Tread, exclusive of the Lips, $4\frac{1}{2}$ inch by 5 inch, $15.00

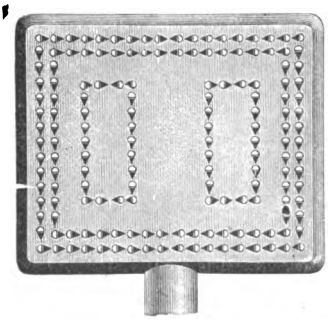
This step is made with Lips at side and front, as shown in illustration, and is especially adapted for use on Express and Milk Wagons.

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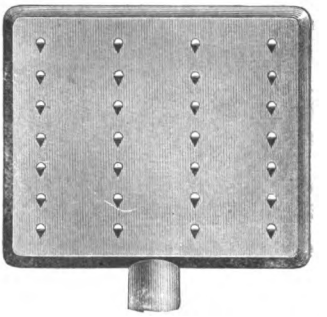
Hand Ragged Polished Step Pads.

Trade Mark.

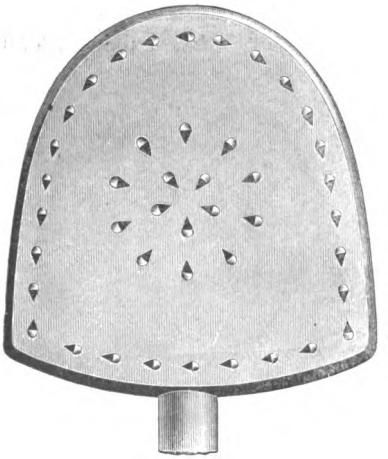
No. 500.
PATTERN A.



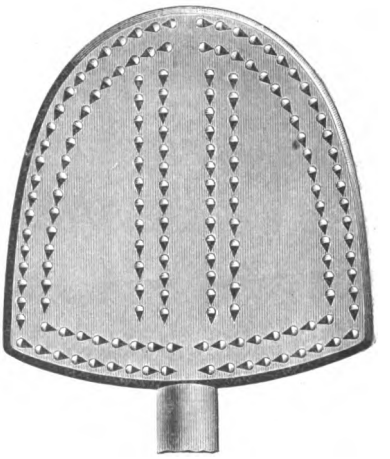
No. 501.
PATTERN B



No. 510.
PATTERN C.



No. 511.
PATTERN E.



	No. 0. 3x3½ in.	No. 1. 3⅜x4 in.	No. 2. 3¾x4½ in.	No. 3. 4½x5½ in.
Pattern A, per dozen pairs,	$5.50	$6 00	$8.50	$11.50
" B, " " "	5.50	6.00	8.50	11.50

	No. 0. 4⅝x4¼ in.	No. 1. 5x4⅜ in.	No. 2. 5⅝x5⅜ in.	No. 3. 6⅛x6 in.
Pattern C, per dozen pairs,	$6.50	$8.00	$12.50	$15.50
" E, " " "	6.50	8.00	12.50	15.50

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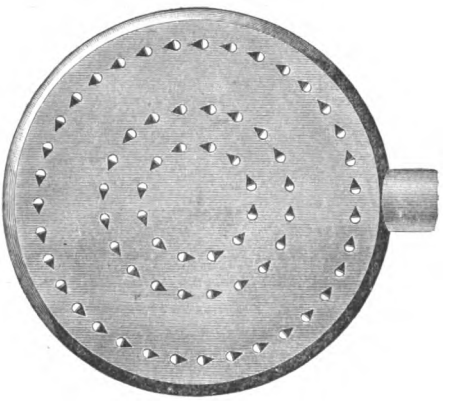
Hand Ragged Polished Step Pads.

No. 520.

PATTERN F.

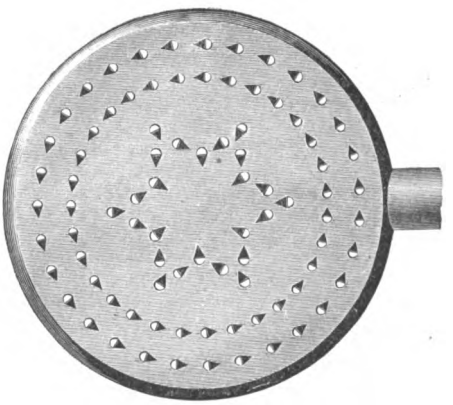


Trade Mark.



No. 521.

PATTERN G.



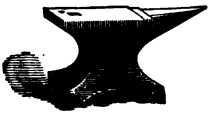
	No. 00. 4 in.	No. 0. 4½ in.	No. 1. 5 in.	No. 1½. 5½ in.	No. 2. 6 in. diam.
Pattern F, per dozen pairs,	$6.00	$6.50	$9.00	$12.50	$15.50
" G, " " "	6.00	6.50	9.00	12.50	15.50

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"Anvil" Square Cross Bar Step Pads.

No. 525.

SMALL STAR PATTERN.



Trade Mark.

Strongest Step of its Weight made.

Fig. 1.

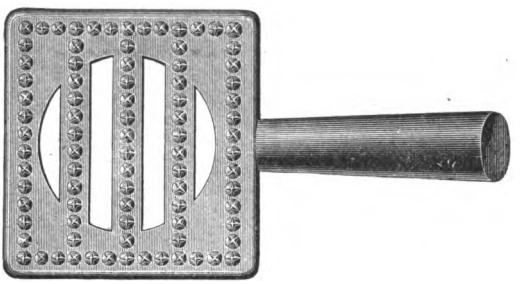
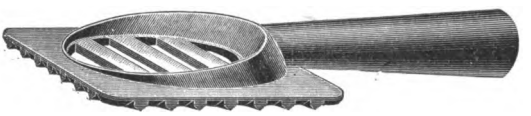


Fig. 2.



Made expressly for Fine Light Carriages.

No. 1,.....	3¼	inch by	3⅜	inch,.....	per	dozen	pairs,	$6.50
" 2,.....	3⅝	" "	3¾	"	"	"	"	8.50
" 3,.....	4	" "	4¼	"	"	"	"	12.00

Fig 1 is a view of the side on which the foot treads, and Fig. 2 the reverse side.

The bars run across the Pad at right angles with the shank, instead of parallel with it, which will better hold the foot in place when stepping on to the Pad than if the bars run lengthwise, and by many is thought of better style.

As shown in Fig. 2, the step is supported on the under side by a strong ring, which tapers towards the edges and front, making a light step, and at the same time one of great strength.

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SQUARE CROSS BAR STEP PADS.

No. 526.

NOTCH PATTERN.

Trade Mark.

Strongest Step of its Weight made.

Fig. 1.

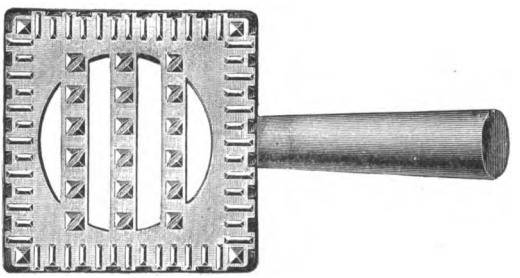
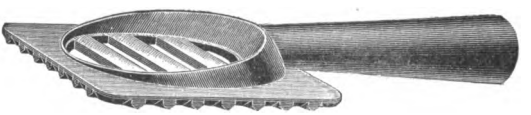


Fig. 2.



Made expressly for Fine Light Carriages.

No. 1,	.....	$3\frac{1}{4}$	inch by	$3\frac{3}{8}$	inch,	.....	per dozen pairs,			$8.00
" 2,	.....	$3\frac{5}{8}$	" "	$3\frac{3}{4}$	"	.....	"	"	"	10.00
" 3,	.....	4	" "	$4\frac{1}{4}$	"	.....	"	"	"	13.50

Fig. 1 is a view of the side on which the foot treads, and Fig. 2 the reverse side.

The body of this Step is the same as described on the preceding page, and the upper side gives a novel design that makes a good finish. They are forged of the best Norway Iron, and we offer this and other patterns of the Cross Bar as the best Steps known to the trade.

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SQUARE CROSS BAR STEP PADS.

No. 527.

RING PATTERN.

Trade Mark.

Strongest Step of its Weight made.

Fig. 1.

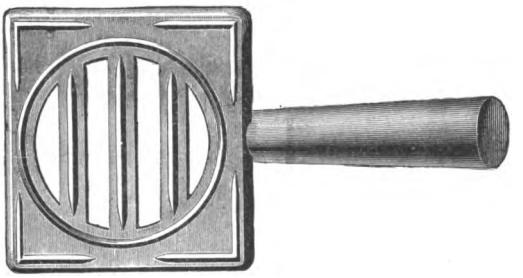
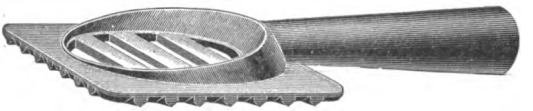


Fig. 2.



Made expressly for Fine Light Carriages.

No. 0,.....	$2\frac{7}{8}$	inch by	3	inch,.....	per	dozen	pairs,	$7.00
" 1,.....	$3\frac{1}{4}$	" "	$3\frac{3}{8}$	"	"	"	"	8.00
" 2,.....	$3\frac{5}{8}$	" "	$3\frac{3}{4}$	"	"	"	"	10.00

Fig. 1 is a view of the side on which the foot treads, and Fig. 2 the reverse side.

The bars run across the Pad at right angles with the shank, instead of parallel with it, which will better hold the foot in place when stepping on to the Pad than if the bars run lengthwise, and by many is thought of better style.

As shown in Fig. 2, the step is supported on the under side by a strong ring, which tapers towards the edges and front, making a light step, and at the same time one of great strength. They are forged of the best Norway Iron, and are generally admitted to be the best step offered to the trade.

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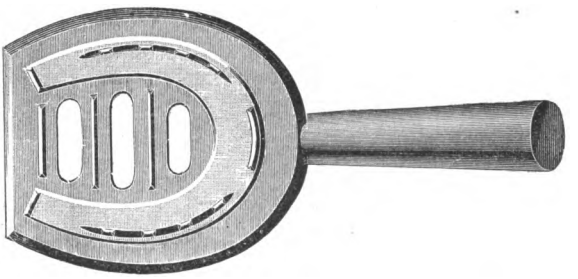
CROSS BAR STEP PADS.

No. 535.

HORSE SHOE PATTERN.

Strongest Step of its Weight made.

Trade Mark.



Made expressly for Fine Light Carriages.

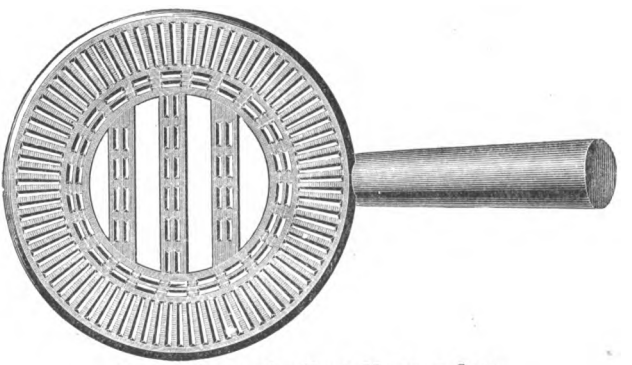
No. 0,.....	3	inch by	3½	inch,.....	per dozen	pairs,		$7.00
" 1,.....	3⅜	"	3⅞	"	"	"	"	8.00
" 2,.....	3¾	"	4¼	"	"	"	"	10.00

CROSS BAR STEPS.

No. 536.

ROUND BAR PATTERN.

Strongest Step of its Weight made.



Forged from the Best Norway Iron.

No. 1,.....5 inch diameter,.....per dozen pairs, $13.00

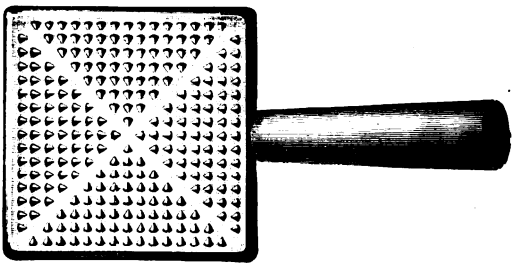
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SQUARE EMBOSSED STEP PADS.

No. 540.

RASP PATTERN.

Trade Mark.



Forged from the Best Norway Iron.

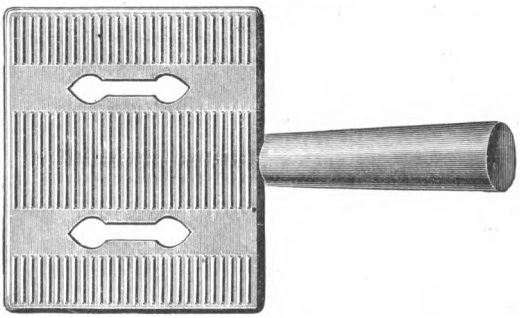
No. 0,	$2\frac{3}{4}$	inch by	$2\frac{3}{4}$	inch,	per dozen	pairs,	$5.50
" 1,	$3\frac{1}{4}$	" "	$3\frac{1}{4}$	"	" "	"	6.50
" 2,	$3\frac{3}{4}$	" "	$3\frac{3}{4}$	"	" "	"	8.25
" 3,	$4\frac{1}{2}$	" "	$5\frac{1}{2}$	"	" "	"	12.00

The Rasp Pattern is one of the best to give a good finish to the Carriage, as it also is to hold the foot from slipping.

They are of the same smooth, well-defined angle forging peculiar to goods of our make, and are a very popular Step for fine work.

No. 541.

OPEN STRIPE PATTERN.



Forged Solid from the Best Norway Iron.

No. 0,	3	inch by	$3\frac{1}{2}$	inch,	per dozen	pairs,	$6.00
" 1,	$3\frac{3}{8}$	" "	4	"	" "	"	7.00
" 2,	$3\frac{3}{4}$	" "	$4\frac{1}{2}$	"	" "	"	9.00

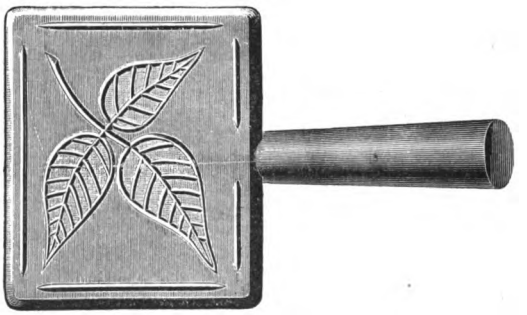
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SQUARE EMBOSSED STEP PADS.

No. 542.

THREE LEAF PATTERN.

Trade Mark.

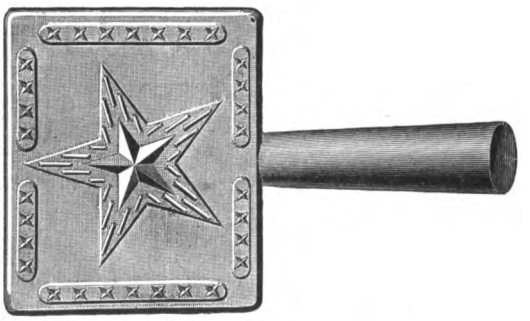


Forged from the Best Norway Iron.

No. 0,.....	3	inch by	3½	inch,.....	per dozen	pairs,	$5.50
" 1,.....	3⅜	" "	4	"	"	"	"	6.50
" 2,.....	3¾	" "	4½	"	"	"	"	8.25

No. 543.

DOUBLE STAR PATTERN.



Forged from the Best Norway Iron.

No. 0,.....	3	inch by	3½	inch,.....	per dozen	pairs,	$5.50
" 1,.....	3⅜	" "	4	"	"	"	"	6.50
" 2,.....	3¾	" "	4½	"	"	"	"	8.25

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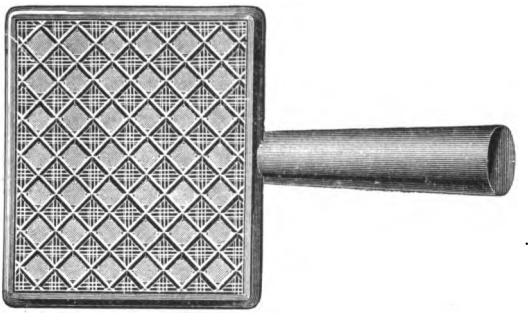
"Anvil" Square Embossed Step Pads.

No. 544.

NETTED PATTERN.



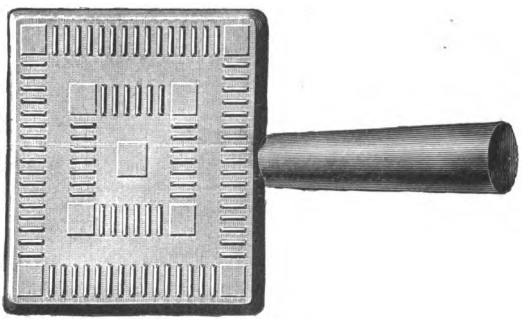
Trade Mark.



No. 0,.....3 inch by 3½ inch,.....per dozen pairs, $4.50
" 1,.....3⅜ " " 4 " ..... " " " 5.00
" 2,.....3¾ " " 4½ " ..... " " " 7.00

No. 545.

BLOCK PATTERN.



No. 0,.....3 inch by 3½ inch,.....per dozen pairs, $4.50
" 1,.....3⅜ " " 4 " ..... " " " 5.00
" 2,.....3¾ " " 4½ " ..... " " " 7.00

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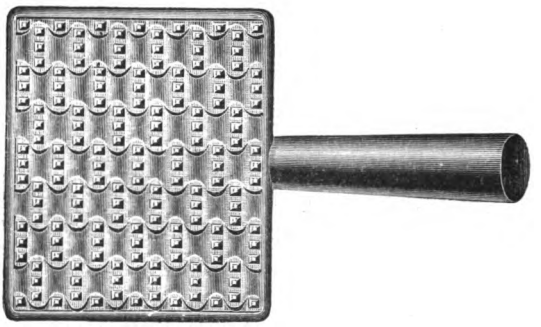
"Anvil" Square Embossed Step Pads.

No. 546.

WAVE PATTERN.



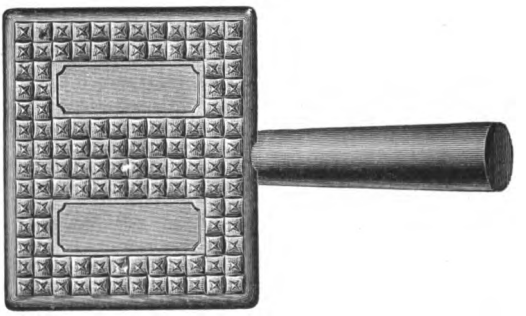
Trade Mark.



No.	0,	3	inch by	3½	inch,	per dozen	pairs,		$4.50
"	1,	3⅜	" "	4	"	"	"	"	5.00
"	2,	3¾	" "	4½	"	"	"	"	7.00

No. 547.

PANEL PATTERN.



No.	0,	3	inch by	3½	inch,	per dozen	pairs,		$4.50
"	1,	3⅜	" "	4	"	"	"	"	5.00
"	2,	3¾	" "	4½	"	"	"	"	7.00
"	3,	4½	" "	5½	"	"	"	"	10.00

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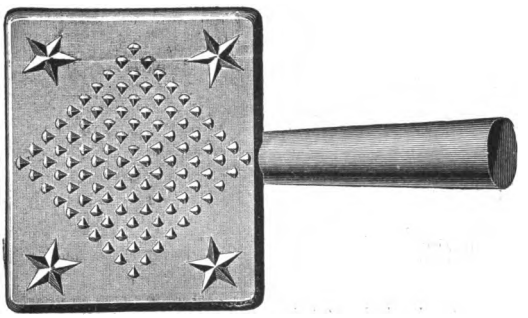
"Anvil" Square Embossed Step Pads.

No. 548.

FOUR STAR PATTERN.



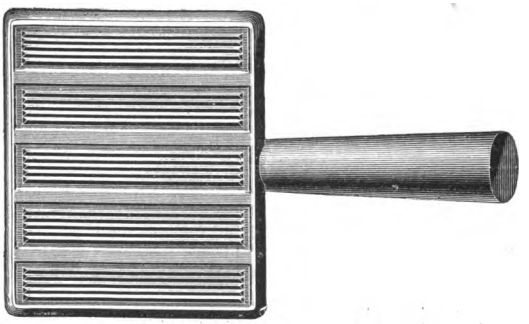
Trade Mark.



No. 0,.....3 inch by 3½ inch, ...per dozen pairs, $4.50
" 1,.....3⅜ " " 4 " ..... " " " 5.00
" 2,.....3¾ " " 4¾ " ..... " " " 7.00

No. 549.

FIVE LINE PATTERN.



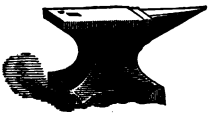
No. 0,.....3 inch by 3½ inch,.....per dozen pairs, $4.50
" 1,.....3⅜ " " 4 " ..... " " " 5.00
" 2,.....3¾ " " 4½ " ..... " " " 7.00

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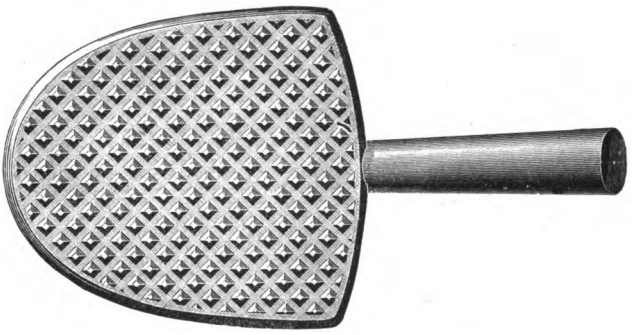
"ANVIL" D EMBOSSED STEP PADS.

No. 570.

PYRAMID PATTERN.



Trade Mark.

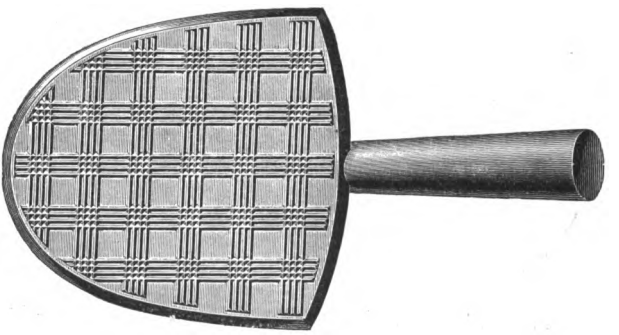


No. 0,.....	$4\frac{5}{8}$	inch by	$4\frac{1}{4}$	inch,.....	per	dozen	pairs,	$5.50
" 1,.....	5	" "	$4\frac{3}{4}$	"	"	"	"	7.00
" 2,.....	$5\frac{5}{8}$	" "	$5\frac{3}{8}$	"	"	"	"	11.00
" 3,.....	$6\frac{1}{8}$	" "	6	"	"	"	"	14.00

A first-class forging of a new and desirable pattern, made from a good stiff iron, suitable for the purpose. The form of this Step is such that clothing will not catch on it.

No. 571.

PLAID PATTERN.



No. 0,.....	$4\frac{5}{8}$	inch by	$4\frac{1}{4}$	inch,.....	per	dozen	pairs,	$5.50
" 1,.....	5	" "	$4\frac{3}{4}$	"	"	"	"	7.00
" 2,.....	$5\frac{5}{8}$	" "	$5\frac{3}{8}$	"	"	"	"	11.00
" 3,.....	$6\frac{1}{8}$	" "	6	"	"	"	"	14.00

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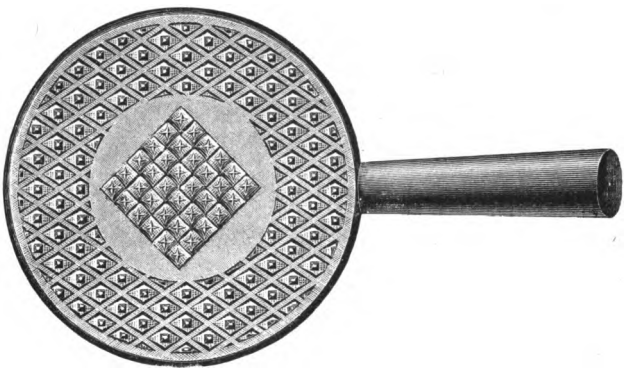
ANVIL ROUND STEP PADS.

No. 585.

DIAMOND PATTERN.



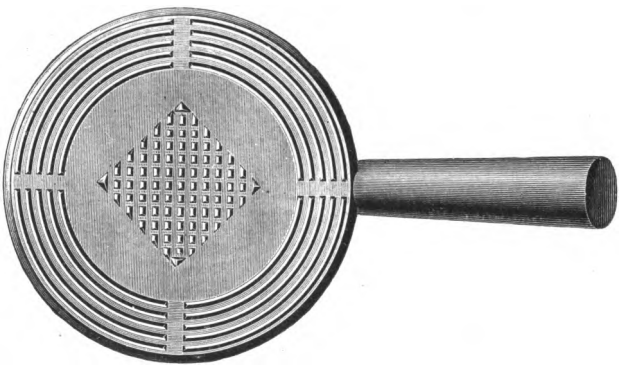
Trade Mark.



No.	00,	4	inch	diameter,	per	dozen	pairs, $5.00
"	0,	4½	"	"	"	"	" 5.50
"	1,	5	"	"	"	"	" 7.50
"	1½,	5½	"	"	"	"	" 11.00

No. 586.

QUARTERED PATTERN.



No.	00,	4	inch	diameter,	per	dozen	pairs, $5.00
"	0,	4½	"	"	"	"	" 5.50
"	1,	5	"	"	"	"	" 7.50
"	2,	6	"	"	"	"	" 14.00

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BICYCLE

— AND —

Special Forgings,

MADE TO ORDER

When quantities sufficient to warrant the expense of Special Dies are wanted.

For estimates, send sample iron, state how many are wanted in first lot, and from what material Forgings are desired made.

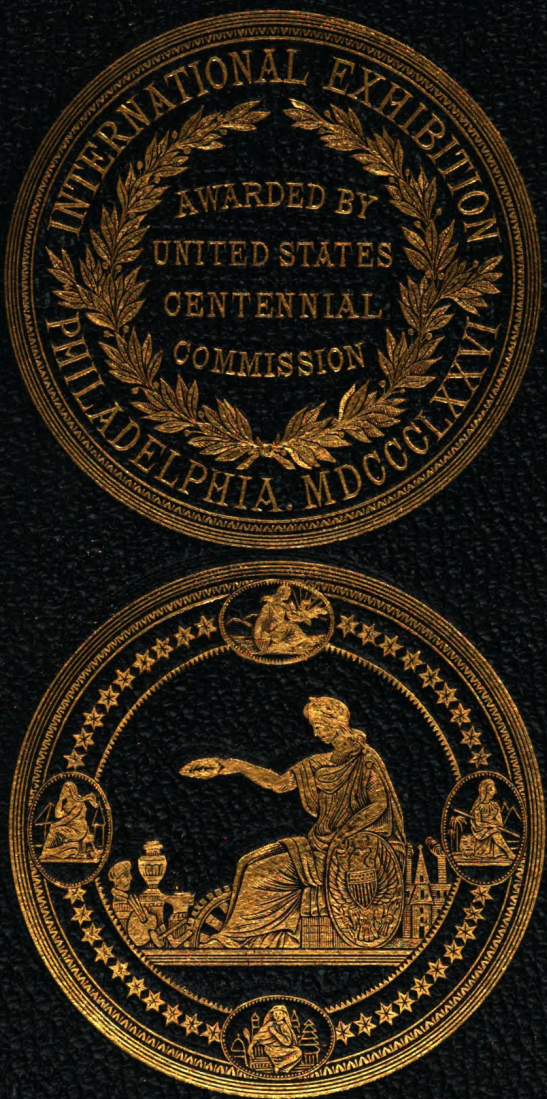
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